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OM nucleic - nucleic search, using sw model

Run on: August 24, 2003, 12:11:26 ; Search time 116.507 seconds  
(without alignments)  
4917.436 Million cell updates/sec

Title: US-09-609-146-3  
Perfect score: 1298  
Sequence: 1 agggagagctcaggctcttg.....tttcagagctgactctcttc 1298

Scoring table: IDENTITY\_NUC  
Gapop 10.0 , Gapext 1.0

Searched: 569978 seqs, 220691566 residues

Total number of hits satisfying chosen parameters: 1139956

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Issued\_Patents\_NA.\*  
1: /cgn2\_6/ptodata/2/ina/5A\_COMB.seq.\*  
2: /cgn2\_6/ptodata/2/ina/5B\_COMB.seq.\*  
3: /cgn2\_6/ptodata/2/ina/6A\_COMB.seq.\*  
4: /cgn2\_6/ptodata/2/ina/6B\_COMB.seq.\*  
5: /cgn2\_6/ptodata/2/ina/PCFUS\_COMB.seq.\*  
6: /cgn2\_6/ptodata/2/ina/backfiles1.seq.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1241.6	95.7	1248	4	US-09-545-944-1
2	347.6	26.8	1535	4	US-09-668-680-12
3	346	26.7	1212	4	US-09-170-496D-113
4	346	26.7	1212	4	US-09-170-496D-223
5	151.2	11.6	1101	4	US-09-170-496D-209
6	149.6	11.5	1088	3	US-09-077-675A-6
7	149.6	11.5	1088	4	US-09-077-674-6
8	149.6	11.5	1101	4	US-09-016-434-1148
9	149.6	11.5	1101	4	US-09-170-496D-87
10	144.6	11.1	1063	3	US-09-077-675A-1
11	144.6	11.1	1063	4	US-09-077-674-1
12	134.8	10.4	1092	3	US-09-077-675A-15
13	134.8	10.4	1092	4	US-09-077-674-15
14	126.8	9.8	4080	4	US-09-016-434-1346
15	120.4	9.3	1122	3	US-09-077-675A-9
16	120.4	9.3	1122	4	US-09-077-674-9
17	117.6	9.1	836	3	US-09-077-675A-11
18	117.6	9.1	836	4	US-09-077-674-11
19	112.4	8.7	1029	3	US-09-077-675A-4
20	112.4	8.7	1029	4	US-09-077-674-4
21	112.4	8.7	1161	1	US-08-086-439C-2
22	112.4	8.7	1161	1	US-08-434-877-2
23	112.4	8.7	1367	3	US-08-475-742-3
24	112.4	8.7	1367	4	US-08-261-293-3
25	112.4	8.7	1370	1	US-08-056-051-1
26	112.4	8.7	1370	1	US-07-928-611-17
27	112.4	8.7	1370	2	US-08-487-811A-17

28	112.4	8.7	1370	3	US-09-060-694-17	Sequence 17, Appl
29	112.4	8.7	1370	4	US-09-378-074-17	Sequence 17, Appl
30	112.4	8.7	1370	5	PCT-US93-07370-17	Sequence 17, Appl
31	112.4	8.7	1466	1	US-08-056-051-3	Sequence 3, Appl
32	112.4	8.7	1466	1	US-07-928-611-19	Sequence 19, Appl
33	112.4	8.7	1466	2	US-08-487-811A-19	Sequence 19, Appl
34	112.4	8.7	1466	3	US-09-060-694-19	Sequence 19, Appl
35	112.4	8.7	1466	4	US-09-378-074-19	Sequence 19, Appl
36	112.4	8.7	1466	5	PCT-US93-07370-19	Sequence 19, Appl
37	112.4	8.7	1504	4	US-09-016-434-1276	Sequence 1276, Ap
38	112.4	8.7	1610	1	US-08-056-051-5	Sequence 5, Appl
39	112.4	8.7	1610	1	US-07-928-611-21	Sequence 21, Appl
40	112.4	8.7	1610	2	US-08-487-811A-21	Sequence 21, Appl
41	112.4	8.7	1610	3	US-09-060-694-21	Sequence 21, Appl
42	112.4	8.7	1610	4	US-09-378-074-21	Sequence 21, Appl
43	112.4	8.7	1610	5	PCT-US93-07370-21	Sequence 21, Appl
44	110	8.5	1529	3	US-08-858-876A-3	Sequence 3, Appl
45	110	8.5	1529	3	US-09-472-880-3	Sequence 3, Appl

ALIGNMENTS

RESULT 1  
US-09-545-944-1  
; Sequence 1, Application US/09545944  
; Patent No. 6461836  
; GENERAL INFORMATION:  
; APPLICANT: AMES, ROBERT  
; APPLICANT: ELSHOURBAGY, NABIL  
; APPLICANT: MICHALOVICH, DAVID  
; APPLICANT: SARAU, HENRY  
; APPLICANT: SHABON, USMAN  
; APPLICANT: VAWTER, LISA  
; TITLE OF INVENTION: MOLECULAR CLONING OF A 7TM RECEPTOR  
; FILE REFERENCE: (AXOR34) AND SCREENING METHODS THEREOF  
; CURRENT APPLICATION NUMBER: US/09/545,944  
; CURRENT FILING DATE: 2000-04-10  
; PRIOR APPLICATION NUMBER: US 09/435,384  
; PRIOR FILING DATE: 1999-11-05  
; NUMBER OF SEQ ID NOS: 5  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 1  
; LENGTH: 1248  
; TYPE: DNA  
; ORGANISM: HOMO SAPIENS  
US-09-545-944-1

Query Match	95.7%	Score 1241.6;	DB 4;	Length 1248;
Best Local Similarity	99.7%	Pred. No. 2.1e-296;		
Matches 124;	Conservative	0;	Mismatches	4;
			Indels	0;
			Gaps	0;
Qy	27	ATGTCAGGATGGAACAACTTCAGAACTTCCTGGATCTACACAGCAAACTAGAAGAT	86	
Db	1	ATGTCAGGATGGAACAACTTCAGAACTTCCTGGATCTACACAGCAAACTAGAAGAT	60	
Qy	87	CCATTCCAGAAACACCTTGAACAGCAGCAGGAGTATCTGGCTTCCTCTGCGGACCTCGG	146	
Db	61	CCATTCCAGAAACACCTTGAACAGCAGCAGGAGTATCTGGCTTCCTCTGCGGACCTCGG	120	
Qy	147	CGCAGCACCTTCTTCCTCCCGCTGCTGTGGTGTATGTGCCAATTTTGTGGGGGTC	206	
Db	121	CGCAGCACCTTCTTCCTCCCGCTGCTGTGGTGTATGTGCCAATTTTGTGGGGGTC	180	
Qy	207	ATTGGCAATGTCCTGGTGTGCTGATTCTGCAGCAGCAGGCTATGAACAGCCGCCACC	266	
Db	181	ATTGGCAATGTCCTGGTGTGCTGATTCTGCAGCAGCAGGCTATGAACAGCCGCCACC	240	
Qy	267	AACTACTACCTTTTTCAGCCTGGGCTCTCTGACCTTCCTGGTCTCTTGGGAATGCC	326	
Db	241	AACTACTACCTTTTTCAGCCTGGGCTCTCTGACCTTCCTGGTCTCTTGGGAATGCC	300	





Db	208	AGCCTTACCAACTACTACTCTTTGAGCGTGCCGTTCGGAACTGCTGGTGC7CTGGTG	267
QY	318	GGAATGCCCTCGAGGTCTATGAGATGTGGCGCAACTACCTTTCTTGTGTTCGGCGCCGTG	377
Db	268	GGCTGGCCCCGAGACTCTATGAGATGTGGCGCAAACTACCCTTCCTGCTGGCGGTGGT	327
QY	378	GGCTGCTACTTTC AAGACGGCCCTCTTTGAGACCGTGCTTGGCTTCATCTCCACGATC	437
Db	328	GGCTGCTATTTC CGCACGCTACTGTTTGAGATGCTCTGCCTGGCTCAGTGCTCAAGCTC	387
QY	438	ACACCGTCTAGGTGGAGCGGTACGTGGCCATCTCACCCGTTTCGCGGCCAAAAC7GCAG	497
Db	388	ACTGGCCTGAGCGTGGAAAGCTATGTGGCCGTGTGCACCCACTCCAGGCGAGGTCATG	447
QY	498	ASGACCCGGCGCGCGGCCCTCAGGATCTCGGCATCGCTGGGGCTTCCTCCGTTGCTCTTC	557
Db	448	GTGACGCGGGGCCATGTGGCGGAGTGTGGGGCCGTCTGGGGTCTTGCCATGTCTGTCG	507
QY	558	TCCCCTGCCAACAC CAGCATCCATGGCATCAAGTTC CACTACTTCCC CAATGGGTCCCTG	617
Db	508	TCCCTGCCACAC CAGCTGCAGGGCATCGG GAGCTCGCAGCTGCCTGCGGGGCCA	567
QY	618	GTCCAGGTTGGCCACCTGTACGGGTATCAAGGCCATGTGGATCTACAATTTTCATCATC	677
Db	568	GTGCCAGACTCAGCTGTTTGCATGCTGGTCGGCCACGGGCCCTCTACAACATGGTAGTG	627
QY	678	CAGGTCACTCTCTCTTACTTCTACCTCTCCCCATGACTGT CATCAGTGTCTCTACTAC	737
Db	628	CAGACACCGGGCTGCTCTTCTGTGCTGCCCATGCCATCATGAGCGTGTCTACCTG	687
QY	738	CTCATGGGACCTACAGACTTAAGAAGACAAAAATCTCTTGAGGCAGATGAAGGAATGCAA --	795
Db	688	CTCATTTGGCTGCGACTCGCGGGAGAGGCTGCTGCTCATG CAGANGCCAAGGCAGG	747
QY	796	-----ATATTCAAAGACCCCTCGAGA	815
Db	748	GGCTCTGCAGCAGCCAGGTC CAGATACACCTG CAGGCTCCAGCAGCAGATCGGGCCGG	807
QY	816	AATCAGTTC AACAGATGCTTTGTCTTGGTCTTAGTGTTCGTATCTGTGTGGGCCCG	875
Db	808	AGACAAGTTGAAGAAGATGCTTTTGTCTCGTGTGTGTGTGGCATCTGCTGGGCCGG	867
QY	876	TTCACATTTGACCGACTCTCTTCTTCAGCTTTGTGGAGGTGGAGTGAATCCCTGGCTGCT	935
Db	868	FTTCCACGGCGACCGGTCATGTGAGGCGTGTGTCACAGTGG ACAATGGCCTGTCACCTG	927
QY	936	GTGTTTCAACCTCGTCCATGTGGTGTCTAGGTGTCTTCTTCTACCTGAGCTCAGCTGTCAAC	995
Db	928	GCCTTCCAGCAGTGCAGTCA TCCGGCATCTCTCTTCTACCTGGGCTCGGGGCCAAC	987
QY	996	CCCATTTCTATPAACCTACTGCTCGCGCGTTCCAGCAGCATTTCCAGAATG	1047
Db	988	CCCGTGTCTATAGCTCATGTCCAGCGCGTTCGAGAGACCTTCCAGAGG	1039

## RESULT 5

US-09-170-496D-209

US 03 170 420D 203  
: Sequence 209, Application US/09170496D

Patent No. 6555339

GENERAL INFORMATION:

APPLICANT: Behan, Dominic P.

APPLICANT: Chalmers, Derek T.

; APPLICANT: Liaw, Chen W.

**; TITLE OF INVENTION: No. 6555339-Endogenous, Constitutively Activated Human G Protein-**

; TITLE OF INVENTION: Receptors

FILE REFERENCE: AREN-0040

; CURRENT APPLICATION NUMBER: US/09/170,496D

; CURRENT FILING DATE: 1998-10-13

; NUMBER OF SEQ ID NOS: 294

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; SOFTWARE: PatentIn version 3.1
; CEO TO NO 200

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; SEQ ID NO 209
: LENGTH: 1101

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; LENGTH: 1101

## RESULT 6

US-09-077-675A-6

; Sequence 6, Application US/09077675A

; Patent No. 6242199

```

; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-170-496D-209

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Query Match 11.6%; Score 151.2; DB 4; Length 1101;  
Best Local Similarity 51.5%; Pred. No. 5.3e-28;  
Matches 451; Conservative 0; Mismatches 413; Indels 12;

167	Qy	CGTGCTCGTGGTGATGTGCCAATTTTGTGGTGGGGTCAATTGGCAATGTCCTGGGTG	222
135	Db	CGTACAGCCACCTCGCTGGCAGCTCTCGTGGGTATCGCTGGCAACCTGCTCACCAT	194
227	Qy	CCTGGTGATTCGACAGCACAGGCTATGAAGACGCCACCAACTACTACCTCTTCAGGCT	286
195	Db	GCTGGTGGTGCCTGGCTTCGCGAGCTGGCGACCAACCAACCTCTACCTGTCCAGAT	254
287	Qy	GGGGGTCTGACATCCTCGTCTGCTCTTGGAAATGCCCTGGAGGCTATGAGATGTG	346
255	Db	GGCCTTCGCGATCTGCTCATCTTCCCTC---TGCATGCCCTGGACCTCGTTCGCGCTGTG	311
347	Qy	GCACAATACCTTTCTTGTTCGGGCCGTGGGTGCTACTTCAAGACGGCCCTCTTTGA	406
312	Db	GCAGTACCGCCCTGGAACTTCGGGACCTCTCTGCAAACTCTTCCAATTCGTGAGTGA	371
407	Qy	GACCGTGTGCTTCGCCCTCATCTCAGCATCACACCGCTCAGCGTGGAGCGCTACGTGGC	466
372	Db	GAGCTGACCATACGCCACGGTGTCTCAGCATCACACGGCTGAGCGTCGAGCGCTACTTCG	431
467	Qy	CATCTACACCCGTTCCGCGCAACTGCAGAGCACCGCGCGCGGCCCTCAGAGTACCT	526
432	Db	CATCTGCTTCCACTCCGGCCAAAGTGGTGGTCAAGGGCGGGTGAAGCTGGTGCAT	491
527	Qy	CGCATCGTCTGGGGTCTCTCGGTGCTCTTCTCCCTGCCCAACACCAAGCATCCATGGCAT	586
492	Db	CTTCGTATCTGGCCGTGGCTTCTGCAGCGCGGGCCCATCTTCGTGCTAGTCGGGGT	551
587	Qy	CAAGTTCCACTACTTCCCAATGGGTCCCTGGTCCAGGTTCCGGCCACCTGTACGGTCA	646
552	Db	GGAGCAGGAAGCGCACCGACCTCTGGGACCAACAGAGTGGCGGCCCAACCGAGTTTCG	611
647	Qy	CAAGCCCATGTGGATCTACAAATTTTCATCATCCAGGTCACTTCCTTATTTACCTCCT	706
612	Db	GGTGGCTCTGGACTGCTACCGGTCACTGGGTGGGTGCCAGCATCTCTTCTTCCCTTCC	671
707	Qy	CCCATGACTGTATAGTGTCTCTACTTACCTATGGCACTCAGACTAAAGAAGACAA	766
672	Db	TGCTTCTGTGC---TCACGGTCTCTACAGTCTCATCGGACGAGAGCTGTGGCGGAGG	728
767	Qy	ATCTCTTGGCGAGATCAAGGGAATGCMAATTTCAAAGACCCCTGCAGAAATCAGTCAA	826
729	Db	GCGGGGATGCTGTCGTGGGTGCCTCGCTCAGGACCAAGCAAGCAAAAC---CAA	785
827	Qy	CAAGATGCTGTTGTCTTGGTCTTGTGTTGTCTATCTGTGGGCCCGGTTCACATATGA	886
786	Db	GAATAATGCTGGCTGTAGTGGTGTGTGCTTCACTCTGCTGGTCCCTTCCACGTAGG	845
887	Qy	CCGACTCTTCTCAGCTTTGTGGAGGAGTGGAGTGAATCCCTGGCTGCTGTGTTCAACC-	945
846	Db	GCAGATATTATTTCCAATTCCTTGAACCTGGCTCTTGGAGATTGCTCAGATCAGCCA	905
946	Qy	--TCGTCCATGTGGTGTCCAGTGTCTTCTTACTTACGTTCAGCTGTCAACCCCATAT	1003
906	Db	GTACTGCAACCTCGTGTCTTTGTCTCTTCTACCTCAGTCTGCCATCAACCCCATCT	965
1004	Qy	CTATACCTACTGTCTCGCCGCTTCCAGGAGCAATT	1039
966	Db	GTACAACATCATGTCTCAAGAAGTACCGGGTGGCAGT	1001

## RESULT 6

US-09-077-675A-6

; Sequence 6, Application US/09077675A

; Patent No. 6242199

```

: GENERAL INFORMATION:
: APPLICANT: Pai, Lee-yuh
: APPLICANT: Feighner, Scott C.
: APPLICANT: Howard, Andrew D.
: APPLICANT: Pong, Sheng-Shung
: APPLICANT: Van Der Ploeg, Leonardus H.T.
: TITLE OF INVENTION: RECEPTOR ASSAY
: NUMBER OF SEQUENCES: 16
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: Merck & Co., Inc.
: STREET: P.O. Box 2000, 126 E. Lincoln Ave.
: CITY: Rahway
: STATE: NJ
: COUNTRY: USA
: ZIP: 07065-0900
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Diskette
: COMPUTER: IBM Compatible
: OPERATING SYSTEM: DOS
: SOFTWARE: FastSQ for Windows Version 2.0
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/09/077.675A
: FILING DATE: 3-JUN-1998
: CLASSIFICATION:
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER:
: FILING DATE:
: ATTORNEY/AGENT INFORMATION:
: NAME: Cocuzzo, Anna L.
: REGISTRATION NUMBER: 42,452
: REFERENCE/DOCKET NUMBER: 19590P
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: 732-594-1273
: TELEFAX: 732-594-4720
: TELEX:
: INFORMATION FOR SEQ ID NO: 6:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 1088 base pairs
: TYPE: nucleic acid
: STRANDEDNESS: single
: TOPOLOGY: linear
: MOLECULE TYPE: CDNA
: PS-09/077-675A-6

```

[illegible]

RESULT 7  
 US-09-077-674-6  
 ; Sequence 6, Application US/09077674  
 ; Patent No. 6531314  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Arena, Joseph P.  
 ; APPLICANT: Cully, Doris F.  
 ; APPLICANT: Feighner, Scott D.  
 ; APPLICANT: Howard, Andrew D.  
 ; APPLICANT: Liberator, Paul A.  
 ; APPLICANT: Schaeffer, James M.  
 ; APPLICANT: Van Der Ploeg, Leonardus  
 ; TITLE OF INVENTION: GROWTH HORMONE SECRETAGOGUE RECEPTOR FAMILY  
 ; NUMBER OF SEQUENCES: 16  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: Merck & Co., Inc.  
 ; STREET: P.O. Box 2000, 126 E. Lincoln Ave.  
 ; CITY: Rahway  
 ; STATE: NJ  
 ; COUNTRY: USA  
 ; ZIP: 07065-0900  
 ; COMPUTER READABLE FORM:  
 ; MEDIUM TYPE: Diskette  
 ; COMPUTER: IBM Compatible  
 ; OPERATING SYSTEM: DOS  
 ; SOFTWARE: Fastseq for Windows Version, 2.0  
 ; CURRENT APPLICATION DATA:  
 ; APPLICATION NUMBER: US/09/077,674  
 ; FILING DATE: 3-JUN-1998  
 ; CLASSIFICATION: 536  
 ; PRIOR APPLICATION DATA:  
 ; APPLICATION NUMBER:  
 ; FILING DATE:  
 ; ATTORNEY/AGENT INFORMATION:  
 ; NAME: Cocuzzo, Anna L.  
 ; REGISTRATION NUMBER: 42,452  
 ; REFERENCE/DOCKET NUMBER: 19589P

## TELECOMMUNICATION INFORMATION:

TELEPHONE: 732-594-1273

TELEFAX: 732-594-4720

TELEX:

INFORMATION FOR SEQ ID NO: 6:

SEQUENCE CHARACTERISTICS:

LENGTH: 1088 base pairs

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: cDNA

US-09-077-674-6

Query Match 11.5%; Score 149.6; DB 4; Length 1088;

Best Local Similarity 51.4%; Pred. No. 1.3e-27;

Matches 450; Conservative 0; Mismatches 414; Indels 12; Gaps 4;

QY 167 CTTGCTGCTGGTGTATGTCACCAAGGCTATGAAGAGCCCACTACTACTCTTTCAGCCT 286  
DB 122 CGTCACAGCCAGCTGCTGGCACTCTTCGTGGGTATCGTGGCAAGCTGTCAACCAT 181  
QY 227 CTTGCTGATTCTGCAGCAGGCTATGAAGAGCCCACTACTACTCTTTCAGCCT 286  
DB 182 GCTGGTGGTTCGCGCTTCGGAGCTGCGCAGCCACCACTACTACTCTTTCAGCCT 241  
QY 287 GCGGCTCTGACCTCTGCTGCTCTTGGAAATGCCCTGGAGGTCTATGAGATGTG 346  
DB 242 GCGCTCTCGGATCTGCTATCTTCTC---TGCATGCCCTGGACCTGTTCGCTCTG 298  
QY 347 GCGCAACTACCTTTCTTGGGCGCCCTGGGCTGCTACTTCAAGAGCCCTCTTTGA 406  
DB 299 GAGTACCGGCGCTGGAATCTGGGAGCCTCTCTGCAAACTCTTCCAATTCGTAGTGA 358  
QY 407 GACCGTGTCTGCGCTCCATCTCAGCATCACCGCTCAGCTGAGCGGTACGTGGC 466  
DB 359 GAGTGCACCTAGCCAGCGGTCTCACCATCAGCGCTGAGCGTGGAGCGGTACTTCGC 418  
QY 467 CATCTCTACACCGCTTCGCGCAAACTGCAGAGCAGCCGCGCGGCGCTCAGGATCCT 526  
DB 419 CATCTCTCCACCTCCCGGCCAAGGTGTGTGCACCAAGGGCGGTGAAGCTGTCTAT 478  
QY 527 CGGATCTGCTGGGCTTCTCGTGTCTTCTCTCTGCGCCCAACACAGCATCCATGGCAT 586  
DB 479 CTTGCTCATCTGGGCGCTTCTGTCAGCGCGGCGCCATCTTCTGCTAGTGGGCT 538  
QY 587 CAAGTTCCTACTTCCCAATGGTCCCTGCTGCCAGTTCGGCACCTGTACGTCAT 646  
DB 539 GGAGCAGAGAGCGGCGGCGGCTTGGGACACCAAGAGTGGCGGCGGCGGAGTTGC 598  
QY 647 CAAGCCCATGTGGATCTACAATTTTCATCATCCAGGTACCTCTCTTATTTACCTCT 706  
DB 599 GGTGGCTCTGGACTGCTCAGCGTCATGTGTGGGTGTCAGCATCTTCTTCTCTTCC 658  
QY 707 CCGCATGACTGTATCAGTGTCTCTACTACCTCATGGCAGCTCAGACTAAAGAGACAA 766  
DB 659 TGTCTTCTGTC---TCACGCTCTCTACAGTCTCATCGCAGGAAGCTGTGGCGAGAG 715  
QY 767 ATCTCTTGGAGGAGATGAAGGAATGCAAAATTTCAAGACCTCGCAGAAATCAGTCAA 826  
DB 716 GCGCGCGATGTGTGGTGGTCTCGCTCAGGACCAAGACCAAGCAACCAACCGTG-- 773  
QY 827 CAAGATGCTGT 886  
DB 774 -AAATGCTGT 832  
QY 887 CCGACTCTTCTTCAAGT 945  
DB 833 GCGATATTATTATTTTCAAAATCCTTTGAGCTGGCTCTTGGAGATGTGTGTGTGTGTGT 892  
QY 946 --TCGTCCATGT 1003  
DB 893 GTACTGCAACCTCGTGTCTTGTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTT 952

QY 1004 CTATAACCTACTGTCTTCGCCGCTTCCAGCAGCATT 1039

DB 953 GTACAACATCATGTCCCAAGAAGTACCGGTGGCAGT 988

## RESULT 8

US-09-016-434-1148

Sequence 1148, Application US/09016434

Patent No. 6500938

GENERAL INFORMATION:

APPLICANT: Janice Au-Young

APPLICANT: Jeffrey J. Sellhamer

TITLE OF INVENTION: COMPOSITION FOR THE DETECTION OF SIGNALING

TITLE OF INVENTION: PATHWAY GENE EXPRESSION

NUMBER OF SEQUENCES: 1490

CORRESPONDENCE ADDRESS:

ADDRESSEE: INCYTE PHARMACEUTICALS, INC.

STREET: 3174 PORTER DRIVE

CITY: PALO ALTO

STATE: CALIFORNIA

COUNTRY: USA

ZIP: 94304

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Word Perfect 6.1 for Windows/MS-DOS 6.2

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/016,434

FILING DATE: HEREWITH

CLASSIFICATION:

PRIOR APPLICATION DATA:

APPLICATION NUMBER:

FILING DATE:

CLASSIFICATION:

ATTORNEY/AGENT INFORMATION:

NAME: Zeller, Karen J.

REGISTRATION NUMBER: 37,071

REFERENCE/DOCKET NUMBER: PA-0002 US

TELECOMMUNICATION INFORMATION:

TELEPHONE: (650) 855-0555

TELEFAX: (650) 845-4166

INFORMATION FOR SEQ ID NO: 1148:

SEQUENCE CHARACTERISTICS:

LENGTH: 1101 base pairs

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

IMMEDIATE SOURCE:

LIBRARY: GENBANK

CLONE: g1504140

US-09-016-434-1148

Query Match 11.5%; Score 149.6; DB 4; Length 1101;

Best Local Similarity 51.4%; Pred. No. 1.3e-27;

Matches 450; Conservative 0; Mismatches 414; Indels 12; Gaps 4;

QY 167 CTTGCTGCTGGTGTATGTGCCAATTTTCTGGTGGGGCTATTGGCAATGTCTCGGTGTG 226  
DB 135 CGTCACAGCCAGCTGCGGTGGCACTCTTCGTGGGTGGGTATCGCTGGCAACCTGTCTACCAT 194  
QY 227 CTTGCTGATTCTGCAGCAGCAGGCTATGAAGAGCCCGCCAGCAACTACTACTCTTTCAGCCT 286  
DB 195 GCTGGTGGTGTGCGGCTTCCGCGAGCTGCGCAGCAGCTCTACCTGTCCAGCAT 254  
QY 287 GCGGCTCTCTGACCTGCTGCTGCTTGTGAATGCCCTGGAGGTCTATGAGATGTG 346  
DB 255 GGCCTTCTCCGATCTGCTATCTTCTC---TGCATGCCCTGGACCTGTTCGCGCTCTG 311  
QY 347 GCGCAACTACCTTTCTTCTTGGGCGCCGTGGGCTGCTACTTCAAGACGCGCCCTCTTTGA 406  
DB 312 GCAGTACCGGCGCTTGGAACTTGGGAGCCTCTCTGCAAACTCTTCCAATTCGTCAAGTGA 371







US-09-077-674-1

Query Match	11.1%	Score 144.6	DB 4	Length 1063
Best Local Similarity	51.3%	Pred. No. 2.2e-26		
Matches 439	Conservative 0	Mismatches 404	Indels 12	Gaps 4
QY	167	CGTGTCTGTGGTGTATGTGTGCAATTTTGTGGTGGGGTCTATTGGCAATCTCCTGGTGTG	226	
DB	97	CGTACGGCCACCTGGTGGCGCTCTCTGGTGGGTATCGCGGCAACTGCTCAGCAT	156	
QY	227	CTGTGGTGATTTCTGCAGCAGAGGCTATGAAGACGCCCAACCACTACTACTCTTACGCCT	286	
DB	157	GCTGGTAGTGTACGCTTCCGGAGATGCGCACCAACCACTCTACCTGTCCAGCAT	216	
QY	287	GGCGGTCTGTGACCTCTGTGTCTCTTGTGAATGGCCCTGGAGTCTATGAGATGTG	346	
DB	217	GGCTTCTTCGAGCTACTCATC---TTCTCTGCATGCCCTCGAAGCTTCCGGCCCTCTG	273	
QY	347	GCSCAACTACCTTTTCTTGTTCGGGCCGTGGTGTCTACTTCAAGACGGCCCTCTTTGA	406	
DB	274	GCAGTACCGGCTTGGNAACCTTGGCAACCTGCTCTGCAAACTCTTCCAGTTCGTACGGA	333	
QY	407	GACCGTGTGCTCGCTTCATCTCAGCATCACACCGTCAAGGTGGAGCGCTACGTGGC	466	
DB	334	GAGCTGCACCTACGCCACAGTGTCTACCATCATCCGCGCTGAGCGTCTACTTCGC	393	
QY	467	CATCTACACCCGTTCCGCCCAACTGACAGGACCCGCGCGGCCCTCTCAGGATCCT	526	
DB	394	CATCTGTCTCCCGCTCGCGGCCAAGGTAGTGGTCAACCAAGGCGGGTGAAGCTGGTCA	453	
QY	527	CGGCATCGTGGGGCTTCTCGGTGCTTCTCCCTGCCCAACACCAAGCATCCATGGCAT	586	
DB	454	CTTGGTCATCTGGCGTGGCTTCTGCACGCGGGGCCCATCTTCTGTGGTGGGAGT	513	
QY	587	CAAGTTCCACTACTTCCCCAATGGTGCCTTGGTCCAGGTTGCGGCCACCTGTACGGTCA	646	
DB	514	GGAGCATGATAACGGCACTACCCCTCGGGACACCAACGAGTGGCGGCCACGGAGTTCGC	573	
QY	647	CAGGCCATGTGATCTACAATTTTCATCATCATCAGGTACCTCTTCTCTATTTCTACCTCT	706	
DB	574	CGTGGCTCCGGCTGCTTACCGTCAATGGTCTGGGTGTCAGTGTCTTCTTCT---TCT	630	
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DB	631	GCCTGTCTTCTGCTCACTGTCTATAGCTCATTCGGCAGGAGCTCTGGCGGAGGAA	690	
QY	767	ATCTCTTTGGCCAGATGAAGGAATGCAAATATTTCAAAGACCCCTGCAGAAAATCAGTCAA	826	
DB	691	CGCGGGGAGCGCGGTGGGCTCTCGCTCAGGACACCAACCAACAAACCGT--	748	
QY	827	CAGATGCTGTTGTCTTGTGCTTAGTGTGTTGTATCTGTTGGGCCCGGTTCCACATGA	886	
DB	749	-AAATGTGGCTGTAGTGTGTTGCTTTTTCATCTCTGTGGGTGCTTCTCCATGTAGG	807	
QY	887	CCGA---CTCTCTTCCAGCTTTGTGGAGGAGTGGAGTAATCCCTGGCTGCTGTGTTCAA	943	
DB	808	CGGATATTTATTTCCAAATTCCTTGGAGCCTGGCTCTGTGGAGATTCCTCAGATCAGCCA	867	
QY	944	CTCTGCTCATGTGGTGTGAGTGTCTTCTTCTACCTCAGCTCAGCTGTCAACCCCATAT	1003	
DB	868	ATACTGCAACCTCGTGTCTTTGTCTCTTCTACCTCAGTGGGCCATCAACCTATCT	927	
QY	1004	CTATAACCTACTGTCT	1018	
DB	928	GTACAACATCATGTCTC	942	

APPLICANT: Feighner, Scott C.  
 APPLICANT: Howard, Andrew D.  
 APPLICANT: Pong, Sheng-Shung  
 APPLICANT: Van Der Ploeg, Leonardus H.T.  
 TITLE OF INVENTION: RECEPTOR ASSAY  
 NUMBER OF SEQUENCES: 16  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: Merck & Co., Inc.  
 STREET: P.O. Box 2000, 126 E. Lincoln Ave.  
 CITY: Rahway  
 STATE: NJ  
 COUNTRY: USA  
 ZIP: 07065-0900  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Diskette  
 COMPUTER: IBM Compatible  
 OPERATING SYSTEM: DOS  
 SOFTWARE: FastSeq for Windows Version 2.0  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/09/077,675A  
 FILING DATE: 3-JUN-1998  
 CLASSIFICATION:  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER:  
 FILING DATE:  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Cocuzzo, Anna L.  
 REGISTRATION NUMBER: 42,452  
 REFERENCE/DOCKET NUMBER: 19590P  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: 732-594-1273  
 TELEFAX: 732-594-4720  
 TELEX:  
 INFORMATION FOR SEQ ID NO: 15:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 1092 base pairs  
 TYPE: nucleic acid  
 STRANDEDNESS: single  
 TOPOLOGY: linear  
 MOLECULE TYPE: CDNA  
 US-09-077-675A-15

Query Match	10.4%	Score 134.8	DB 3	Length 1092	
Best Local Similarity	50.2%	Pred. No. 5.7e-24			
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Qy	227	CCGTGGTGATTCTGCAGCACAGGCTATGAAGACGCCACCAACTACTACTCTTCCAGCCT	286		
Db	192	GCTGGTGGTCTCCCGTTCCGGCAGCTGGCCACACCAACCTCTACCTGTCCAGCAT	251		
Qy	287	GGCGGTCTCTGACCTCCTGGTCTCTGCTCTTGGAAATGCCCTCGAGAGTCTATGAGATGG	346		
Db	252	GGCTTCTCGGATCTGCTCATCT- --TCCTGTGCATGCCGCTGGAGCTCGTCCGCTCTG	308		
Qy	347	GCACAACCTACCTTTCTTGTTCGGGGCGGTGGCTGCTACTTCAAGACGCCCTCTTTGA	406		
Db	309	GCAGTACCGGCCCTGGAACTTCGGCGACCTGCTCTGCAAACTCTTCCAGTTTGTACGGA	368		
Qy	407	GACCGTGTGGTTCGGCTTCATCTCAGCATCACACCGTCAAGGTGAGGGCTACCTGGC	466		
Db	369	GAGCTGCACCTACGCCACGGTCTCACCATCACCGGGCTGAGCGTGCAGCGCTACTTCGC	428		
Qy	467	CATCCTACACCCCTTCGGGCCAACTGCAGACACCCGGCGCGCGCCCTCAGGATCCT	526		
Db	429	CATCTGTTCCCTCTCGGGCCAAAGTGGTGGTCACTAAGGGCGCGGTGAAGCTGGTCA	488		
Qy	527	CGGCATCGTCTGGGGCTTCTCCGTGCTCTTCTCCCTGCCCAACACCAAGCATCCATGCCAT	586		
Db	489	CCATTGTATCTGGGCGTGGCTTTCTGCAGCGCGGGCGGCATCTTCTGCTGGTGGCGGCT	548		

[illegible]

RESULT 13

US-09-077-674-15  
 : Sequence 15, Application US/09077674  
 : Patent No. 6531314  
 : GENERAL INFORMATION:  
 : APPLICANT: Arena, Joseph P.  
 : APPLICANT: Cully, Doris F.  
 : APPLICANT: Feighner, Scott D.  
 : APPLICANT: Howard, Andrew D.  
 : APPLICANT: Liberator, Paul A.  
 : APPLICANT: Schaeffer, James M.  
 : APPLICANT: Van Der Ploeg, Leonardus  
 : TITLE OF INVENTION: GROWTH HORMONE SECRETAGOGUE RECEPTOR FAMILY  
 : NUMBER OF SEQUENCES: 16  
 : CORRESPONDENCE ADDRESS:  
 : ADDRESSEE: Merck & Co., Inc.  
 : STREET: P.O. Box 2000, 126 E. Lincoln Ave.  
 : CITY: Rahway  
 : STATE: NJ  
 : COUNTRY: USA  
 : ZIP: 07065-0900  
 : COMPUTER READABLE FORM:  
 : MEDIUM TYPE: Diskette  
 : COMPUTER: IBM Compatible  
 : OPERATING SYSTEM: DOS  
 : SOFTWARE: Fastseq for Windows Version 2.0  
 : CURRENT APPLICATION DATA:  
 : APPLICATION NUMBER: US/09/077,674  
 : FILING DATE: 3-JUN-1998  
 : CLASSIFICATION: 536  
 : PRIOR APPLICATION DATA:  
 : APPLICATION NUMBER:  
 : FILING DATE:  
 : ATTORNEY/AGENT INFORMATION:  
 : NAME: Cocuzzo, Anna L.  
 : REGISTRATION NUMBER: 42,452  
 : REFERENCE/DOCKET NUMBER: 19589p  
 : TELECOMMUNICATION INFORMATION:  
 : TELEPHONE: 732-594-1273



US-09-077-675A-9

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Query Match          9.3%; Score 120.4; DB 3; Length 1122;
Best Local Similarity 52.3%; Pred. No. 2e-20;
Matches 290; Conservative 0; Mismatches 261; Indels 3; Gaps 1;

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Db 387 CGTCACAGCCACCTGCGTGGCTCTCTCGTGGTGGGTATCGTGGCAACCTGCTCACCAT 446

Qy 227 CTTGGTGTATCTGCAGACACAGAGCTATGAGAGAGCCACCAACTACTACTCTTTACGCT 286
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Qy 287 GCGGGTCTCTGACCTCTGTGTCTCTCTCTTGAATGCCCTGGAGGCTCTATGAGATGTG 346
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Db 507 GGCTTCTCCGAT---CTGCTCATCTTCTCTCTCATGCCCCCTGGACCTGTTCCGCTCTG 563

Qy 347 GCGCAACTACCCCTTCTTGTTCGGGCCCTGTGGGCTGCTACTTCAAGACGGCCCTCTTTGA 406
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Db 564 GCAGTACCGGCCCTTGAACCTTCGGCGACCTCTCTCTGCAAACTCTTCCAAATTCGTCACTGA 623

Qy 407 GACCGTGTGTTCGCTCCATCTCAGCATCACACCGCTCAGCGTGGAGGCTACGTGGC 466
    || | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 624 GAGCTGCACCTACGCCACGGTGTCTACCATCACAGCGCTGAGCGCTGAGCGCTACTTCGC 683

Qy 467 CATCCTACACCCCTTCGCGCCCAAACTGCAGAGCACCGCGCGCGCCCTCAGGATCCT 526
    |||| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 684 CATCTGCTTCCCACTTCGGGCCCAAGGTGGTGTGCACCAAGGGCGGGGTGAAGCTGGTCAT 743

Qy 527 CGGCATCGTGTGGGGTTCCTCCGTGCTTCTCCCTGCCCAACACACAGCATCCATGGCAT 586
    | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 744 CTTGCTCATCTGGGCGTGGCCCTTCTGCAGCGCGCGGCCCATCTTCTGCTAGTCTCGGGGT 803

Qy 587 CAAGTTCCTACTACTTCCCCCAATGGGTCCCTGGTCCAGGTTCGGCCACCTGTACGGTCA 646
    || | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 804 GGAGCAGAGAACGGACCGACCCCTTGGGACACCAACAGAGTGGCGCCGCCACCGAGTTTGC 863

Qy 647 CAAGCCCATGTGGATCTACAAATTCATCCAGGTCACTCCTCTCTTCTTCTACCTCCT 706
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Db 864 GGTGGCTCTGGACTGCTACGGTCATGGTGTGGGTGTCAGCATCTTCTTCTTCTTCTCC 923

Qy 707 CCCCATGACTGTCA 720
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Db 924 TGTCTTCTGTCTCA 937
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Job time : 121.507 secs

GenCore version 5.1.6  
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OM nucleic - nucleic search, using sw model

Run on: August 24, 2003, 13:24:07 ; Search time 394.686 Seconds  
(without alignments)  
7393.506 Million cell updates/sec

Title: US-09-609-146-3

Perfect score: 1298

Sequence: 1 agggagcctcagccttg.....tttcagagctgactctctc 1298

Scoring table: IDENTITY\_NUC  
Gapop 10.0 , Gapext 1.0

Searched: 1517243 seqs, 1124081882 residues

Total number of hits satisfying chosen parameters: 3034486

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published\_Applications\_NA:\*

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17: /cgn2\_6/ptodata/1/pubpna/US60\_PUBCOMB.seq.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1248	96.1	1248	12	US-10-272-983-11
2	1239	95.5	1239	14	US-10-225-567A-556
3	723.8	55.8	801	11	US-09-782-974C-17
4	347.6	26.8	1535	14	US-10-146-419-12
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6	346	26.7	1212	14	US-10-083-168-13
7	346	26.7	1212	14	US-10-083-168-82
8	346	26.7	1212	14	US-10-251-385-113
9	346	26.7	1212	14	US-10-251-385-223
10	346	26.7	1212	14	US-10-225-567A-539
11	346	26.7	1212	14	US-10-290-078-16
12	346	26.7	1212	14	US-10-290-078-17
13	151.2	11.6	1101	14	US-10-251-385-209
14	149.6	11.5	1101	14	US-10-251-385-87
15	134.8	10.4	1239	14	US-10-225-567A-472
16	134.8	10.4	1239	14	US-10-290-078-13

17	134.8	10.4	1239	14	US-10-290-078-14
18	128	9.9	588	11	US-09-791-279-44
19	126.8	9.8	4131	12	US-10-101-510-417
20	126.8	9.8	4131	12	US-10-101-510-752
21	126.8	9.8	4131	14	US-10-225-567A-206
22	120.4	9.3	870	14	US-10-225-567A-139
23	119.8	9.2	1258	9	US-09-804-551B-25
24	119.8	9.2	1287	14	US-10-270-333-113
25	119.8	9.2	4314	14	US-10-270-333-112
26	112.4	8.7	1367	14	US-10-241-313-3
27	112.4	8.7	1370	14	US-10-224-260-17
28	112.4	8.7	1466	14	US-10-224-260-19
29	112.4	8.7	1504	14	US-10-225-567A-105
30	112.4	8.7	1610	14	US-10-224-260-21
31	110	8.5	1529	12	US-10-205-219-22
32	107.6	8.3	1788	14	US-10-270-333-194
33	97.6	7.5	1569	14	US-10-225-567A-431
34	94.4	7.3	1983	14	US-10-270-333-191
35	93.2	7.2	1164	14	US-10-228-264-3
36	93.2	7.2	1309	14	US-10-225-567A-365
37	93.2	7.2	1365	8	US-08-899-112-29
38	93.2	7.2	1365	15	US-10-298-992-4
39	93	7.2	1427	10	US-09-967-768A-296
40	91.4	7.0	1167	14	US-10-225-567A-317
41	89.4	6.9	1362	9	US-09-825-294-208
42	89.4	6.9	1362	10	US-09-970-966-208
43	89.4	6.9	1362	14	US-10-097-340-118
44	89.4	6.9	1362	14	US-10-225-567A-363
45	89.4	6.9	1362	15	US-10-212-677-208

#### ALIGNMENTS

RESULT 1  
US-10-272-983-11  
; Sequence 11, Application US/10272983  
; Publication No. US20030148450A1  
; GENERAL INFORMATION:  
; APPLICANT: Chen, Ruoping  
; APPLICANT: Dang, Huang T.  
; APPLICANT: Liaw, Chen W.  
; APPLICANT: Lin, I-Lin  
; TITLE OF INVENTION: Human Orphan G Protein Coupled Receptors  
; FILE REFERENCE: AREN0050  
; CURRENT APPLICATION NUMBER: US/10/272,983  
; CURRENT FILING DATE: 2002-10-17  
; PRIOR APPLICATION NUMBER: US/09/417,044  
; PRIOR FILING DATE: 1999-10-12  
; PRIOR APPLICATION NUMBER: 60/109,213  
; PRIOR FILING DATE: 1998-11-20  
; PRIOR APPLICATION NUMBER: 60/120,416  
; PRIOR FILING DATE: 1999-02-16  
; PRIOR APPLICATION NUMBER: 60/121,851  
; PRIOR FILING DATE: 1999-02-26  
; PRIOR APPLICATION NUMBER: 60/123,946  
; PRIOR FILING DATE: 1999-03-12  
; PRIOR APPLICATION NUMBER: 60/123,949  
; PRIOR FILING DATE: 1999-03-12  
; PRIOR APPLICATION NUMBER: 60/136,436  
; PRIOR FILING DATE: 1999-05-28  
; PRIOR APPLICATION NUMBER: 60/136,437  
; PRIOR FILING DATE: 1999-05-28  
; PRIOR APPLICATION NUMBER: 60/136,439  
; PRIOR FILING DATE: 1999-05-28  
; PRIOR APPLICATION NUMBER: 60/136,567  
; PRIOR FILING DATE: 1999-05-28  
; Remaining Prior Application data removed - See File Wrapper or PALM.  
; NUMBER OF SEQ ID NOS: 74  
; SOFTWARE: Patentin Ver. 2.1  
; SEQ ID NO 11  
; LENGTH: 1248  
; TYPE: DNA

; ORGANISM: Homo sapiens  
US-10-272-983-11

Query Match 96.1%; Score 1248; DB 12; Length 1248;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 1248; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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DB 1 ATGTGAGGATGGAAGAAATTCAGAAATTCCTCTGGATCTACAGAGAACTAGAGAT 60  
QY 87 CCAATTCAGAAACACCTGAACAGACCGAGGAGTATCTGGCCCTCTCTCGGACCTCGG 146  
DB 61 CCAATTCAGAAACACCTGAACAGACCGAGGAGTATCTGGCCCTCTCTCGGACCTCGG 120  
QY 147 CGAGGCACCTCTCTCCCTCCCGGTCTGTGGTGTATGTGCCAATTTTGTGGGGTCC 206  
DB 121 CGAGGCACCTCTCTCCCTCCCGGTCTGTGGTGTATGTGCCAATTTTGTGGGGTCC 180  
QY 207 ATTGGCAATGCTGTGTGGTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTG 266  
DB 181 ATTGGCAATGCTGTGTGGTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTG 240  
QY 267 AACTACTACCTCTTTCAGCCTGGGGTCTGTGACCTCCTGTGCTGTGCTGTGCTGTGCTGTG 326  
DB 241 AACTACTACCTCTTTCAGCCTGGGGTCTGTGACCTCCTGTGCTGTGCTGTGCTGTGCTGTG 300  
QY 327 CTGAGGTCTATCAGATGTGGCCCACTACCTCTTCTGTTCGGGGCCGTGGGCTGCTAC 386  
DB 301 CTGAGGTCTATCAGATGTGGCCCACTACCTCTTCTGTTCGGGGCCGTGGGCTGCTAC 360  
QY 387 TTCAAGACGGCCCTCTTTGAGACCGGTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTG 446  
DB 361 TTCAAGACGGCCCTCTTTGAGACCGGTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTG 420  
QY 447 AGCGTGGAGCGCTACGTGGCCATCTACACCCGTTCCGGGCCAACTCGAGACACCCCGG 506  
DB 421 AGCGTGGAGCGCTACGTGGCCATCTACACCCGTTCCGGGCCAACTCGAGACACCCCGG 480  
QY 507 CGCGGGCCCTCAGGATCTCGGCATCTGTGGGGTCTTCCGTGCTCTTCCCTGCC 566  
DB 481 CGCGGGCCCTCAGGATCTCGGCATCTGTGGGGTCTTCCGTGCTCTTCCCTGCC 540  
QY 567 AACACGAGCATCATGGCATCAAGTTCCACTACTTCCCAATGGGTCCCTGGGCCAGGT 626  
DB 541 AACACGAGCATCATGGCATCAAGTTCCACTACTTCCCAATGGGTCCCTGGGCCAGGT 600  
QY 627 TCGGCCACCTGTACGCTCATCAAGCCATGTGGATCTCAATTTTCATCATPCCAGGTACC 686  
DB 601 TCGGCCACCTGTACGCTCATCAAGCCATGTGGATCTCAATTTTCATCATPCCAGGTACC 660  
QY 687 TCCTTCTTATCTACCTCTCCCATGACTGTGCATCAGTGTCTCTACTACCTCATGGCA- 746  
DB 661 TCCTTCTTATCTACCTCTCCCATGACTGTGCATCAGTGTCTCTACTACCTCATGGCA 720  
QY 747 CTCAGACTAAAGAAAGACAAATCTCTGTAGGCAGATGAAGGAAATGCAATATTCAAAGA 806  
DB 721 CTCAGACTAAAGAAAGACAAATCTCTGTAGGCAGATGAAGGAAATGCAATATTCAAAGA 780  
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DB 781 CCCTGCAGAAATCAGTCAACAGATGCTGTGTTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGT 840  
QY 867 TGGGCCCTGTCCACATTCACCGACTCTTCTTCAGCTTGTGTGAGGAGTGGAGTGAATCC 926  
DB 841 TGGGCCCTGTTCACATTCACCGACTCTTCTTCAGCTTGTGTGAGGAGTGGAGTGAATCC 900  
QY 927 CTGGCTGTGTGTTCAACCTCGTCCATGTGGTGTGCTGAGGTGTCTTCTTACCTGAGCTCA 986  
DB 901 CTGGCTGTGTGTTCAACCTCGTCCATGTGGTGTGCTGAGGTGTCTTCTTACCTGAGCTCA 960  
QY 987 GCTGTCAACCCCATTTATCTATAACCTACTGTCTCGCCGCTTCAGAGCAGCATTCAGAAAT 1046  
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DB 961 GCTGCTCAACCCCATTTATCTATAACCTACTCTCTCGCGCTTCCAGGACGAGCATTCAGAAAT 1020  
QY 1047 GTGATCTCTTCTTTCCACAACAGTGGCACTCCAGCATGACCCACAGTTGGCCACCTGCC 1106  
DB 1021 GTGATCTCTTCTTTCCACAACAGTGGCACTCCAGCATGACCCACAGTTGGCCACCTGCC 1080  
QY 1107 CAGCGGAACATCTTCTCTGACAGAAATGCCACTTTTGTGGAGCTGACCCGAAGATATAGGTCCC 1166  
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RESULT 2

US-10-225-567A-556  
; Sequence 556, Application US/10225567A  
; Publication No. US2003011379A1  
; GENERAL INFORMATION:  
; APPLICANT: LifeSpan Biosciences  
; APPLICANT: Brown, Joseph P.  
; APPLICANT: Burmer, Glenna C.  
; APPLICANT: Roush, Christine L.  
; TITLE OF INVENTION: ANTIGENIC PEPTIDES AND ANTIBODIES FOR G PROTEIN-COUPLED RECEPT  
; FILE REFERENCE: 1920-4-4  
; CURRENT APPLICATION NUMBER: US/10/225,567A  
; PRIOR FILING DATE: 2001-12-19  
; PRIOR APPLICATION NUMBER: 60/257,144  
; PRIOR FILING DATE: 2000-12-19  
; NUMBER OF SEQ ID NOS: 2292  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 556  
; LENGTH: 1239  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-10-225-567A-556

Query Match 95.5%; Score 1239; DB 14; Length 1239;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 1239; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
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QY 96 AAACACCTGAACAGACCGAGGAGTATCTGGCTTCTCTGGGACCTCGGCGCAGCCAC 155  
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QY 156 TTCTTCTCCCGGTGTCTGT 215  
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QY 276 CTCCTCAGCCTGGCGGTCTCTGACCTCTCTGGTCTCTCTCTGGTGTGTGTGTGTGTGTGTGTGT 335  
DB 241 CTCCTCAGCCTGGCGGTCTCTGACCTCTCTGGTCTCTCTCTGGTGTGTGTGTGTGTGTGTGTGT 300  
QY 336 TATGAGATGGCGCAACTACCTTTTCTTGTGGGCGCGGTGGGTGTGTGTGTGTGTGTGTGTGTGT 395  
DB 301 TATGAGATGGCGCAACTACCTTTTCTTGTGGGCGCGGTGGGTGTGTGTGTGTGTGTGTGTGTGT 360  
QY 396 GCCTCTTTGAGACCGGT 455  
DB 361 GCCTCTTTGAGACCGGT 420

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QY 456 CGTACGTGGCCATCTTACACCGTTCGCGGCCAAACTGCAGAGCACCGCGCGCGGCC 515
Db 421 CGTACGTGGCCATCTTACACCGTTCGCGGCCAAACTGCAGAGCACCGCGCGCGGCC 480
QY 516 CTCAGGATCTCGGCATCGTCTCGGCGCTTCTCGGCTCTCTCTCTCTCTCTCTCT 575
Db 481 CTCAGGATCTCGGCATCGTCTCGGCGCTTCTCGGCTCTCTCTCTCTCTCTCTCT 540
QY 576 ATCCATGGGCATCAAGTTCACACTACTTCCCAATGGGTCCCTGTCCTCCAGTTCGGCCACC 635
Db 541 ATCCATGGGCATCAAGTTCACACTACTTCCCAATGGGTCCCTGTCCTCCAGTTCGGCCACC 600
QY 636 TGTACGCTCATCAAGCCCATGTGGATCTACAAATTTTCATCATCCAGGTCACTCTCTCTCTA 695
Db 601 TGTACGCTCATCAAGCCCATGTGGATCTACAAATTTTCATCATCCAGGTCACTCTCTCTCTA 660
QY 696 TTCTACCTCTCCCATGACTGTCTACAGTGTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 755
Db 661 TTCTACCTCTCCCATGACTGTCTACAGTGTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 720
QY 756 AAGAAGACAAATCTCTTGAGGCAGATGAAGGAATGCAAAATTTCAAGACCCCTCAGA 815
Db 721 AAGAAGACAAATCTCTTGAGGCAGATGAAGGAATGCAAAATTTCAAGACCCCTCAGA 780
QY 816 AAATCAGTCAACAAGATGCTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTT 875
Db 781 AAATCAGTCAACAAGATGCTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTT 840
QY 876 TTCCACATTCACGACCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 935
Db 841 TTCCACATTCACGACCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 900
QY 936 GTGTTCAACCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 995
Db 901 GTGTTCAACCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 960
QY 996 CCATTATCTATAACCTACTGTTCTCGCGCTTCCAGGCAGCATTCAGGAATGTGATCTCT 1055
Db 961 CCATTATCTATAACCTACTGTTCTCGCGCTTCCAGGCAGCATTCAGGAATGTGATCTCT 1020
QY 1056 TCCTTCCACAAACAGTGGCACTCCGACATGACCCACAGTTGGCACTGCGCCACGCGAAC 1115
Db 1021 TCCTTCCACAAACAGTGGCACTCCGACATGACCCACAGTTGGCACTGCGCCACGCGAAC 1080
QY 1116 ATCTTCTCTGACAGATGCCACTTTGTGGAGCTGACCGAAGATATAGTCTCCCAATTCCTCA 1175
Db 1081 ATCTTCTCTGACAGATGCCACTTTGTGGAGCTGACCGAAGATATAGTCTCCCAATTCCTCA 1140
QY 1176 TGTACGTATCTCATGACAACTCTCACTCTCCCAACAGCCCTCTCTAGTGAACAGATGTCA 1235
Db 1141 TGTACGTATCTCATGACAACTCTCACTCTCCCAACAGCCCTCTCTAGTGAACAGATGTCA 1200
QY 1236 AGAACAAACTATCAAGCTTCCACTTTAACAACCTGA 1274
Db 1201 AGAACAAACTATCAAGCTTCCACTTTAACAACCTGA 1239
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RESULT 3  
US-09-782-974C-17/c  
; Sequence 17, Application US/09782974C  
; Publication No. US20030082534A1  
; GENERAL INFORMATION:  
; APPLICANT: Vogeli, Gabriel  
; APPLICANT: Lind, Peter  
; APPLICANT: Wood, Linda S.  
; APPLICANT: Parodi, Luis A.  
; TITLE OF INVENTION: No. US20030082534A1 G Protein Coupled Receptor  
; FILE REFERENCE: 41USPHRM311  
; CURRENT APPLICATION NUMBER: US/09/782,974C  
; CURRENT FILING DATE: 2002-09-04  
; PRIOR APPLICATION NUMBER: 60/165,838  
; PRIOR FILING DATE: 1999-11-16

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; PRIOR APPLICATION NUMBER: 09/714,449  
; PRIOR FILING DATE: 2000-11-16  
; PRIOR APPLICATION NUMBER: 60/198,568  
; PRIOR FILING DATE: 2000-04-20  
; PRIOR APPLICATION NUMBER: 60/166,071  
; PRIOR FILING DATE: 1999-11-17  
; PRIOR APPLICATION NUMBER: 60/166,678  
; PRIOR FILING DATE: 1999-11-19  
; PRIOR APPLICATION NUMBER: 60/173,396  
; PRIOR FILING DATE: 1999-12-28  
; PRIOR APPLICATION NUMBER: 60/184,129  
; PRIOR FILING DATE: 2000-02-22  
; PRIOR APPLICATION NUMBER: 60/185,421  
; PRIOR FILING DATE: 2000-02-28  
; PRIOR APPLICATION NUMBER: 60/185,554  
; PRIOR FILING DATE: 2000-02-28  
; PRIOR APPLICATION NUMBER: 60/186,530  
; PRIOR FILING DATE: 2000-03-02  
; Remaining Prior Application data removed - See File Wrapper or PALM.  
; NUMBER OF SEQ ID NOS: 192  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 17  
; LENGTH: 801  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; US-09-782-974C-17  
  
Query Match 55.8%; Score 723.8; DB 11; Length 801;  
Best Local Similarity 59.7%; Pred. No. 2.7e-20;  
Matches 725; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
  
QY 30 TCAGGGATGAAAAAATTCAGAATGCTTCTCGGATCTACACGACGAAACTAGAAATCCA 89  
Db 801 TCAGGGATGAAAAAATTCAGAATGCTTCTCGGATCTACACGACGAAACTAGAAATCCA 742  
QY 90 TTCAGAAACACCTGAAACACGACGAGGAGTATCTGGCTTCTCTCGGACCTTCGGGCG 149  
Db 741 TTCAGAAACACCTGAAACACGACGAGGAGTATCTGGCTTCTCTCGGACCTTCGGGCG 682  
QY 150 AGCACCTTCTCTCCCGCTGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 209  
Db 681 AGCACCTTCTCTCCCGCTGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 622  
QY 210 GGCAATGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 269  
Db 621 GGCAATGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 562  
QY 270 TACTACCTCTTACGCTTGGGCGTCTCTGACCTCTCTGTCTCTCTCTCTCTCTCTCTCTCT 329  
Db 561 TACTACCTCTTACGCTTGGGCGTCTCTGACCTCTCTGTCTCTCTCTCTCTCTCTCTCTCT 502  
QY 330 GAGGTCTATCAGATGTGGCGCAACTACCTTCTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 389  
Db 501 GAGGTCTATCAGATGTGGCGCAACTACCTTCTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 442  
QY 390 AAGACGCGCTCTTGTGAGACCGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 449  
Db 441 AAGACGCGCTCTTGTGAGACCGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 382  
QY 450 GTGAGCGCTACGTGGCCATCTTACACCGTTCGCGCCCAAACTGACAGACACCCGCGCG 509  
Db 381 GTGAGCGCTACGTGGCCATCTTACACCGTTCGCGCCCAAACTGACAGACACCCGCGCG 322  
QY 510 CGGGCCCTCAGGATCTCTCGGCGTGTGGGCTTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 569  
Db 321 CGGGCCCTCAGGATCTCTCGGCGTGTGGGCTTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 262  
QY 570 ACCAGATCATGGCATCAAGTTCCACTACTTCCCAATGGGTCCCTGGTCCCAAGTTCG 629  
Db 261 ACCAGATCATGGCATCAAGTTCCACTACTTCCCAATGGGTCCCTGGTCCCAAGTTCG 202  
QY 630 GCCACCTGTACGGTCAATCAAGCCCATGTGGATCTTACAATTTTCATCATCCAGGTCACTCC 689  
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Db 201 GGCACCTGACGGTGCATCAAGCCCATGTGATCTACAATTTTCATCATCCAGGTCACTCC 142
QY 690 TTCCTATTCTACTCTCCCTCCCATGACTGTCAATCAGTCTCTACTACTACCTCATGGCAGTC 749
Db 141 TTCCTATTCTACTCTCCCTCCCATGACTGTCAATCAGTCTCTACTACTACCTCATGGCAGTC 82
QY 750 AGACTAA 756
Db 81 AGAGTGA 75

RESULT 4
US-10-146-419-12
; Sequence 12, Application US/10146419
; Publication No. US20030087370A1
; GENERAL INFORMATION:
; APPLICANT: Tang, Y. Tom
; APPLICANT: Drmanac, Radoje T.
; APPLICANT: Liu, Chenghua
; APPLICANT: Zhang, Jie
; TITLE OF INVENTION: No. US20030087370A1el Nucleic Acids and
; FILE REFERENCE: 790CIP2ADIV1
; CURRENT APPLICATION NUMBER: US/10/146,419
; PRIOR FILING DATE: 2002-05-15
; PRIOR APPLICATION NUMBER: 09/668,680
; PRIOR FILING DATE: 2000-09-22
; PRIOR APPLICATION NUMBER: 09/649,167
; PRIOR FILING DATE: 2000-08-23
; PRIOR APPLICATION NUMBER: 09/540,217
; PRIOR FILING DATE: 2000-03-31
; NUMBER OF SEQ ID NOS: 13
; SOFTWARE: pt_FL_genes Version 2.0
; SEQ ID NO 12
; LENGTH: 1535
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1)..(1338),
US-10-146-419-12

Query Match 26.8%; Score 347.6; DB 14; Length 1535;
Best Local Similarity 62.1%; Pred. No. 6.8e-94;
Matches 591; Conservative 0; Mismatches 319; Indels 42; Gaps 1;

QY 138 GGACCTGGCGCAGCAGCTCTCTCCCTCCCGTGTCTGGTGTATGTGCCATTTTGTG 197
Db 214 GGGCCCCAGCAGACAGAGCTGTTCATGCCCATCTGTGCCACATACCTGCTGATCTCGTG 273
QY 198 GTGGGGGTCAATGGCAATGTCCTGTGTGCGCTGTGTGATCTGCAGCAGCAGGCTATGAAG 257
Db 274 GTGGGCGTGTGGGCAATGGGTGACCTGTCTGGTGTATCTTGGCCACAGGCCATGGC 333
QY 258 AGCCCCCACTACTACTCTTACAGCTGGGGGTCTCTGAGCTCTCTGCTGCTGCTCTT 317
Db 334 AGCCCTACCACTACTACTCTTACAGCTGGGGGTCTCTGAGCTCTCTGCTGCTGCTG 393
QY 318 GGAATGCCCTGGAGGTCTATGAGATGTGGGCAACTACCTCTTCTTCTGGGCGCGTG 377
Db 394 GGCCTGCCCTGGAGCTCTATGAGATGTGGGCAACTACCTCTTCTTCTGGGCGCGTG 453
QY 378 GCGTCTACTTCAAGACGGCCCTCTTTGAGACCGTGTGCTGCGCTCCATCTCTACGATC 437
Db 454 GCGTCTATTTCGCGACGCTACTGTTTGAGATGGTCTGCTGGCCCTCAGTCTCAACGTC 513
QY 438 ACCACCGTCAGGTGGAGGCTACGTGGCCATCTTACACCGTTCGCGGCCCAAACTGCAG 497
Db 514 ACTGCCCTGAGCGTGGACGCTATGTGGCCGTGTGTGCACCCACTCCAGGCCAGGTCCATG 573
QY 498 AGCAGCCGCGCGCGCCCTCAGGATCTCTGGCATCTCTGGGCTTCTCGGTCTCTTC 557
Db 574 GTGACCGGGCCCATGTGCGCGGAGTGTGTGGGCGCGTCTGGGGTCTTGCCATGCTCTGC 633
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QY 558 TCCCTGCCCAACACAGCATCCATGGCATCAAGTTCCACTACTTCCCAATGGTCCCTG 617
Db 634 TCCCTGCCCAACACAGCATCCATGGCATCCAGGCTCCGCGCATCGAGCTGCGGGGCCCA 693
QY 618 GTCCAGGTTCGGCCACCTGTACGGTCAATCAAGCCCATGTGATCTACAAATTTTCATCATC 677
Db 694 GTGCCAGACTCAGCTGTTTGCATGTGGTCCCGCCACAGGCCCTCTTACAACATGGTAGTG 753
QY 678 CAGGTACCTCTCTTCTATTTACCTTCCTCCCATGACTGTTCATCATGTTCTTACTACTAC 737
Db 754 CAGACCACCGCGTCTCTTCTTCTGCTTGCCTGCCCATGGCCATCATGAGCTGCTTACCTG 813
QY 738 CTGATGGCACTCAGACTAAAGAAAGACAATCTCTTGGCCAGATCAAGGGATGCAA-- 795
Db 814 CTGATGGGCTCGGACTCGCGGGGAGAGGGCTGCTCTCATCGAGAGCCCAAGGCAGG 873
QY 796 -----ATATTCAAAGACCCCTGCAGA 815
Db 874 GGCTCTGCAGAGCCAGGTCCAGATACACCTGCAGGCTCCAGCAGCAGCATCGGGGCCGG 933
QY 816 AATCAGTCAACAAGATGCTGTTTGTCTTGGTCTTGTAGTCTTGTCTGTTGGGCCCGG 875
Db 934 AGACAAGTGACCAAGATGCTGTTTGTCTTGGTCTGTTTGGCATCTGCTGGGCCCG 993
QY 876 TTCCACATTTGACCGACTCTTCTTACGCTTTGTGGAGGACTGGAGTGAATCCCTGGCTGCT 935
Db 994 TTCCAGCGCCAGCGGCTCATGTGGAGCGTGTGTACAGTGGACAGATGGCCTGCACCTG 1053
QY 936 GTGTTCAACCTCTCCATGCTGTCAGTGTCTTCTTACCTGAGCTCAGCTGTCAAC 995
Db 1054 GCCTTCCAGCAGCTGCACGTCATCTCCGGCATCTTCTTCTACCTGGGCTCGGGGCCAAC 1113
QY 996 CCCATTTCTATAACCTACTGCTCTGCCCGCTTCCAGGCGAGCATTCAGAAATG 1047
Db 1114 CCCGTGCTCTATAGCTTCATGTCAGCGCGCTTCCGAGAGACCTTCCAGGAGG 1165
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## RESULT 5

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US-10-146-123-12
; Sequence 12, Application US/10146123
; Publication No. US20030092112A1
; GENERAL INFORMATION:
; APPLICANT: Tang, Y. Tom
; APPLICANT: Liu, Chenghua
; APPLICANT: Zhang, Jie
; APPLICANT: Drmanac, Radoje T.
; TITLE OF INVENTION: No. US20030092112A1el Nucleic Acids and
; FILE REFERENCE: 790CIP2ADIV2
; CURRENT APPLICATION NUMBER: US/10/146,123
; CURRENT FILING DATE: 2002-05-15
; PRIOR APPLICATION NUMBER: 09/668,680
; PRIOR FILING DATE: 2000-09-22
; PRIOR APPLICATION NUMBER: 09/649,167
; PRIOR FILING DATE: 2000-08-23
; PRIOR APPLICATION NUMBER: 09/540,217
; PRIOR FILING DATE: 2000-03-31
; NUMBER OF SEQ ID NOS: 13
; SOFTWARE: pt_FL_genes Version 2.0
; SEQ ID NO 12
; LENGTH: 1535
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1)..(1338)
US-10-146-123-12
```

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Query Match 26.8%; Score 347.6; DB 14; Length 1535;
Best Local Similarity 62.1%; Pred. No. 6.8e-94;
Matches 591; Conservative 0; Mismatches 319; Indels 42; Gaps 1;
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Db 208 AGCCCTACCAACTACTACTCTTACGCTGGCGGTGTGGACCTCTGCTGCTGTG 267
Qy 318 GGAATGCCCCCTGGAGGTATGAGATGTGGGCAACTACCCCTTTCTGTTGGGCCCGTG 377
Db 268 GGCCTGCCCCCTGGAGCTCTATGAGATGTGGGCAACTACCCCTTCTGCTGGGCGTTGGT 327
Qy 378 GGTCTCTACTTCAAGACGGCCCTCTTTGAGACCGGTGTGCTTGGCTCCATCTCTACGATC 437
Db 328 GGTCTCTATTTCCGACGCTACTGTTGAGATGGTCTGCTGGCCCTGCTGACGCTCAACGTC 387
Qy 438 ACCACCTGACGGTGGAGCGGTACGTGGCCATCTTACACCGCTTCCGCGCCCAAACTGCG 497
Db 388 ACTGCGCTGAGCGTGGAAACGCTATGTGGCGGTGTGGACCCACTCCAGGCGAGGTCCATG 447
Qy 498 AGCACCCGGCGCGCGCCCTCAGGATCTCGGCATCTGCGCATCTGCGGCTTCTCGTGTCTTC 557
Db 448 GTGAGCGCGGCCATCTGCGCGAGTGTGGGCGGTCTGGGCTGCTGCGCATGCTCTGCG 507
Qy 558 TCCCTGCCCCAACACAGCATCCATGGCATCAAGTTTCCACTACTTCCCCCAATGGGTCCCTG 617
Db 508 TCCCTGCCCCAACACAGCATCTGCGCATCTGCGCATCTGCGGCTGCTGCGGCGGCCA 567
Qy 618 GTCCAGGTTCGGCCACCTGTACGTCATCAAGCCCATGTGGATCTACAATTTCAATC 677
Db 568 GTCCAGCATCAGCTGTTGTCATGCTGCTGCGCCACGCGGCCCTCTACAACATGTTAGTG 627
Qy 678 CAGGTACCTCTCTCTTCTTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 737
Db 628 CAGACCCGCGCTGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 687
Qy 738 CTCTGACCTCAGACTAAAGAAACAAATCTCTTGGAGGAGATGAAGGAATGCAAA-- 795
Db 688 CTCTATTTGGCTGCGACTGCGGGGAGAGGCTGCTGCTCATGCGAGGCGCCAAAGGCGAG 747
Qy 796 -----ATATTCAAGACCCCTGCAGA 815
Db 748 GGCTCTGACGAGCCAGGTCCAGATACACCTGCGAGCTCCAGCAGCAGCATCGGGGCGG 807
Qy 816 AAATCAGTCAACAAGATCTGTTGCTTGTGCTTAGTGTGTTGCTATCTGTTGGGCCCGG 875
Db 808 AGACAAAGTCAACAAGATCTGTTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 867
Qy 876 TTCCACATGACCGGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 935
Db 868 TTCCACGCGGCGCGCTCATGTGGAGCGTCTGTCACAGTGGACAGATGGGCTGCAACCTG 927
Qy 936 GTGTTCAACCTGCTCCATGTTGGTCAAGTGTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 995
Db 928 GCTTCCAGCAGTGCAGTCTCATCTCCGCGCATCTCTCTCTCTCTCTCTCTCTCTCTCTCT 987
Qy 996 CCCATTATCTATAACCTACTGCTCGCGCGCTTCCAGGCGAGCATTCAGAAATG 1047
Db 988 CCGGTGCTATAGCTCATGCTCCAGCGGCTTCCGAGAGACTTCCAGGAGG 1039
```

RESULT 9

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US-10-251-385-223
; Sequence 223, Application US/10251385
; Publication No. US20030105292A1
; GENERAL INFORMATION:
; APPLICANT: Behan, Dominic P.
; APPLICANT: Chalmers, Derek T.
; APPLICANT: Liaw, Chen W.
; TITLE OF INVENTION: No. US20030105292A1-Endogenous, Constitutively Activated Human G
; TITLE OF INVENTION: Protein-Coupled Receptors
; FILE REFERENCE: AREN-0040
; CURRENT FILING DATE: 2002-09-20
; PRIOR APPLICATION NUMBER: US/09/170,496
; PRIOR FILING DATE: 1998-10-13
; NUMBER OF SEQ ID NOS: 294
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; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 223
; LENGTH: 1212
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-251-385-223

Query Match 26.7%; Score 346; DB 14; Length 1212;
Best Local Similarity 62.0%; Pred. No. 1.8e-93;
Matches 590; Conservative 0; Mismatches 320; Indels 42; Gaps 1;

Qy 138 GGACCTCGGCGAGCCACTTCTTCTCCCGGTCTGTGGTGTATGTGCAATTTTGTG 197
Db 88 GGGCCCCAGCAGACAGAGCTGTTCTATGCCCATCTGTGCCACATAGCTGCTGATCTCTG 147
Qy 198 GTGGGGGTCATTGGCAATGTCTGTGTGCTGCTGGGTGATTTCTCACACACAGGCTATGA 257
Db 148 GTGGGGGCTGTGGGCAATGGGCTGACCTGTCTGTGCTATCTCGGCCAANGGCCATGCG 207
Qy 258 AGCCCCACCAACTACTACTCTTTCAGCCTGGCGGTCTCTGACCTCTCTGCTGCTGCTCT 317
Db 208 AGCCTTACCAACTACTACTCTTTCAGCCTGGCGGTGTCGGACCTGCTGTGCTGCTG 267
Qy 318 GGAATGCCCCCTGGAGGTCTATGAGATGTGGGCCAACTACCCCTTCTTGTTCGGGCCG 377
Db 268 GGCCTGCCCCCTGGAGCTCTATGAGATGTGGCAAACTACCCCTTCTGCTGCGGCGTT 327
Qy 378 GGTCTCTACTTCAACACGCGCTCTTTCAGACCGGTGCTTCCGCTTCCATCTCTCAGCAT 437
Db 328 GGTCTCTATTTCCGACGCTACTGTTGAGATGGTCTGCTGCGCTCAGTGTCTCAACGTC 387
Qy 438 ACCACGCTCAGCGTGGAGCGCTTACCTGCGCATCTTACACCCCTTCCGCGCCAAACTGCA 497
Db 388 ACTGCTCTGAGGCTGGAACGCTATGTGGCGGTGTGCGCCGCTCCAGCCACTCCAGGCC 447
Qy 498 AGCACCCGCGCGCGCCCTCAGGATCTTCCGATCTGTCGTCGTGTGGGGTCTTCTCTGCT 557
Db 448 GTGAGCGCGGCCCATGTGCGCGAGTGTGCGGCGCTGTTGGGGTCTTGGCATGCTCTG 507
Qy 558 TCCCTGCCCCAACACAGCATCCATGGCATCAAGTTTCCACTACTTCCCCCAATGGGTCCCT 617
Db 508 TCCCTGCCCCAACACAGCATCTGCGCATCTCGGCGAGTGCAGCTGCCCTTCCGCGGCCCA 567
Qy 618 GTCCAGGTTCGGCCACCTGTACGTCATCAAGCCCATGTGGATCTACAATTTCAATC 677
Db 568 GTCCAGCATCAGCTGTTGTCATGCTGCTCCCGCCACGCGCCCTCTACAACATGTTAGTG 627
Qy 678 CAGGTCTACCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 737
Db 628 CAGACCCGCGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 687
Qy 738 CTCTGACCTCAGACTAAAGAAACAAATCTCTTGGAGGAGATGAAGGAATGCAAA-- 795
Db 688 CTCTATTTGGCTGCGACTGCGGGGAGAGGCTGCTGCTCATGCGAGGCGCCAAAGGCGAG 747
Qy 796 -----ATATTCAAGACCCCTGCAGA 815
Db 748 GGCTCTGACGAGCCAGGTCCAGATACACCTGCGAGCTCCAGCAGCAGCATCGGGGCGG 807
Qy 816 AAATCAGTCAACAAGATCTGTTGCTTGTGCTTAGTGTGTTGCTATCTGTTGGGCCCGG 875
Db 808 AGACAAAGTCAACAAGATCTGTTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 867
Qy 876 TTCCACATGACCGGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 935
Db 868 TTCCACGCGGCGCGCTCATGTGGAGCGTCTGTCACAGTGGACAGATGGGCTGCAACCTG 927
Qy 936 GTGTTCAACCTGCTCCATGTTGGTCAAGTGTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 995
Db 928 GCTTCCAGCAGTGCAGTCTCATCTCCGCGCATCTCTCTCTCTCTCTCTCTCTCTCTCTCT 987
Qy 996 CCCATTATCTATAACCTACTGCTCGCGCGCTTCCAGGCGAGCATTCAGAAATG 1047
Db 988 CCGGTGCTATAGCTCATGCTCCAGCGGCTTCCGAGAGACTTCCAGGAGG 1039
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; NUMBER OF SEQ ID NOS: 294  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 209  
; LENGTH: 1101  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-10-251-385-209

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Query Match      11.6%; Score 151.2; DB 14; Length 1101;
Best Local Similarity 51.5%; Pred. No. 7.8e-35;
Matches 451; Conservative 0; Mismatches 413; Indels 12; Gaps 4;

QY 167 CQTGCTCTGGGTATGTGCCAATTTTGTGTGGGGTTCATTTGGCAATGCTCTGTGGTGG 226
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 135 CQTACAGCCACCTGCTGGCACTCTTCGTGTGGGTATCGTGGCAACCTGCTCACCAT 194

QY 227 CTTGGTGATTCGACAGCCAGGCTATGAAGAGCCGCCCACTACTACCTCTTACGCT 286
   ||||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 195 GCTGGTGGTGTCCGGCTTCGGGAGCTGGCAGCACCAACCACTACTACCTGTCCAGCAT 254

QY 287 GCGGTGCTCTGACCTCTCTGCTCTCTTGGATGCCCTGGAGGCTATGAGATGG 346
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 255 GGCCTTCTCCGATCTGCTATCTTCTC---TGCATGCCCTGGACCTGTTCCGCTCTG 311

QY 347 GCGCAACTACCTTTTGTTCGGGCCCTGGGTGCTACTTCAAGAGCGCCCTCTTTGA 406
   || || || || || || || || || || || || || || || || || || || || ||
Db 312 GCGATACCGCCCTGGAACCTTCGGGACCTCTCTCTGCAAACTTTCCAAATTCGTCA 371

QY 407 GACCGTGTCTTCGCTCTCATCTCAGCATACCACTGTCAGCGTGGAGCGCTACGTGGC 466
   || || || || || || || || || || || || || || || || || || || || ||
Db 372 GAGCTGCACCTACGCCACGGTCTCACCATCACAGCGCTGAGCGCTGAGCGCTACTTCGC 431

QY 467 CATCTTACACCGTTCCGGGCCAAACTGCGAGAGCACCGCGCGCCCTCAGATCCT 526
   |||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 432 CATCTGCTTCCGATCTGCTATCTCAGGTCACTCTCTCTTCTTCTTCTTCTTCTTCT 491

QY 527 CGGCATGCTCTGGGCTCTCTGCTCTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTT 586
   || || || || || || || || || || || || || || || || || || || || ||
Db 492 CTTCTGCTATCTGGGCGCTGGCCCTTCTGACGCGCGGGGCCATCTTCTGCTAGTCCGGGT 551

QY 587 CAAGTTCCTACTACTTCCCAATGGGTCCCTGTGCTCCAGGTTCCGGCACCTACGCTCAT 646
   || || || || || || || || || || || || || || || || || || || || ||
Db 552 GGAGCAGGAGACGCGCAGCCGCTTGGGACCAACAGAGTCCGCCGCCACCGAGTTTGC 611

QY 707 CCCCCATGCTACAGTGTCTCTACTACCTCAGCTACGCTGAGGAGTGAATCCCTGTGTTCAAGC- 945
   || || || || || || || || || || || || || || || || || || || || ||
Db 846 GCGATATTTATTTTCCAAATCTTTGAGCCTGGCTCTTGGAGATTTGCTCAGATCAGCCA 905

QY 946 ---TCGTCCATGTGGTGCAGGTGCTTCTTCTACCTGAGCTCAGCTGTCAACCCCATTTAT 1003
   || || || || || || || || || || || || || || || || || || || || ||
Db 906 GTACTGCAACCTCGTGTCTTTGTCTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCT 965

QY 1004 CTATACTACTGTCTTCGCGCTTCCAGGACGATTT 1039
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Db 966 GTACAACATCATGTCCAAAGATACCGGTGGCAGT 1001
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RESULT 14  
US-10-251-385-87  
; Sequence 87, Application US/10251385  
; Publication No. US20030105292A1  
; GENERAL INFORMATION:  
; APPLICANT: Behan, Dominic P.  
; APPLICANT: Chalmers, Derek T.  
; APPLICANT: Liaw, Chen W.  
; TITLE OF INVENTION: No. US20030105292A1-Endogenous, Constitutively Activated Human  
; TITLE OF INVENTION: Protein-Coupled  
; TITLE OF INVENTION: Receptors  
; FILE REFERENCE: AREN-0040  
; CURRENT APPLICATION NUMBER: US/10/251,385  
; PRIOR FILING DATE: 2002-09-20  
; PRIOR APPLICATION NUMBER: US/09/170,496  
; PRIOR FILING DATE: 1998-10-13  
; NUMBER OF SEQ ID NOS: 294  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 87  
; LENGTH: 1101  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-10-251-385-87

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Query Match      11.5%; Score 149.6; DB 14; Length 1101;
Best Local Similarity 51.4%; Pred. No. 2.4e-34;
Matches 450; Conservative 0; Mismatches 414; Indels 12; Gaps 4;

QY 167 CQTGCTCTGGGTATGTGCCAATTTTGTGTGGGGTTCATTTGGCAATGCTCTGTGGTGG 226
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Db 135 CQTACAGCCACCTGCTGGCACTCTTCTGTGTGGGTATCGTGGCAACCTGCTCACCAT 194

QY 227 CQTGCTGATTCGACGACCACTATGAAGAGCCGCCCACTACTACTCTTTCAGCCT 286
   ||||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 195 GCTGGTGGTGTCCGGCTTCGGGAGCTGGCAGCACCACTACTACTCTGTCCAGCAT 254

QY 287 GCGGTGCTCTGACCTCTCTGCTCTCTTGGATGCCCTGGAGGCTATGAGATGG 346
   || || || || || || || || || || || || || || || || || || || || ||
Db 255 GGCCTTCTCCGATCTGCTATCTTCTC---TGCATGCCCTGGACCTGTTCCGCTCTG 311

QY 347 GCGCAACTACCTTTTGTTCGGGCCCTGGGTGCTACTTCAAGAGCGCCCTCTTTGA 406
   || || || || || || || || || || || || || || || || || || || || ||
Db 312 GCGATACCGCCCTGGAACCTTCGGGACCTCTCTCTGCAAACTTTCCAAATTCGTCA 371

QY 407 GACCGTGTCTTCTGCTCTCATCTCAGCATACCACTGTCAGCGTGGAGCGCTACGTGGC 466
   || || || || || || || || || || || || || || || || || || || || ||
Db 372 GAGCTGCACCTACGCCACGGTCTCACCATCACAGGCTGAGCGTGGAGCGCTACTTCGC 431

QY 467 CATCTTACACCGTTCCGGGCCAAACTGCGAGAGCACCGCGCGCCCTCAGGATCCT 526
   |||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 432 CATCTGCTTCCGATCTGCTATCTCAGGTCACTCTCTTCTTCTTCTTCTTCTTCTTCT 491

QY 527 CGGCATGCTCTGGGCTCTCTGCTCTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTT 586
   || || || || || || || || || || || || || || || || || || || || ||
Db 492 CTTCTGCTATCTGGGCGCTGGCCCTTCTGACGCGCGGGGCCATCTTCTGCTAGTCCGGGT 551

QY 587 CAAGTTCCTACTACTTCCCAATGGGTCCCTGTGCTCCAGGTTCCGGCACCTACGCTCAT 646
   || || || || || || || || || || || || || || || || || || || || ||
Db 552 GGAGCAGGAGACGCGCAGCCGCTTGGGACCAACAGAGTCCGCCGCCACCGAGTTTGC 611

QY 707 CCCCCATGCTACAGTGTCTCTACTACCTCAGCTACGCTGAGGAGTGAATCCCTGTGTTCAAGC- 945
   || || || || || || || || || || || || || || || || || || || || ||
Db 846 GCGATATTTATTTTCCAAATCTTTGAGCCTGGCTCTTGGAGATTTGCTCAGATCAGCCA 905

QY 946 ---TCGTCCATGTGGTGCAGGTGCTTCTTCTACCTGAGCTCAGCTGTCAACCCCATTTAT 1003
   || || || || || || || || || || || || || || || || || || || || ||
Db 906 GTACTGCAACCTCGTGTCTTTGTCTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCT 965

QY 1004 CTATACTACTGTCTTCGCGCTTCCAGGACGATTT 1039
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Db 966 GTACAACATCATGTCCAAAGATACCGGTGGCAGT 1001
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Result No.	Score	Query Match	Length	DB	ID	Description
1	787.6	64.0	1248	4	US-09-545-944-1	Sequence 1, Appl1
2	330.6	26.9	1212	4	US-09-170-4960-113	Sequence 113, Appl
3	330.6	26.9	1535	4	US-09-668-680-12	Sequence 12, Appl
4	329	26.7	1212	4	US-09-170-4960-223	Sequence 223, Appl
5	134.4	10.9	1101	4	US-09-170-4960-209	Sequence 209, Appl
6	133.2	10.8	1092	3	US-09-077-675A-15	Sequence 15, Appl
7	133.2	10.8	1092	4	US-09-077-674-15	Sequence 15, Appl
8	132.8	10.8	1088	3	US-09-077-675A-6	Sequence 6, Appl1
9	132.8	10.8	1088	4	US-09-077-674-6	Sequence 6, Appl1
10	132.8	10.8	1101	4	US-09-016-434-1148	Sequence 1148, Appl
11	132.8	10.8	1101	4	US-09-170-4960-87	Sequence 87, Appl
12	128	10.4	1063	3	US-09-077-675A-1	Sequence 1, Appl1
13	128	10.4	1063	4	US-09-077-674-1	Sequence 1, Appl1
14	103.4	8.4	836	3	US-09-077-675A-11	Sequence 11, Appl
15	103.4	8.4	836	4	US-09-077-674-11	Sequence 11, Appl
16	102.2	8.3	3129	3	US-09-077-675A-14	Sequence 14, Appl
17	102.2	8.3	3129	4	US-09-077-674-14	Sequence 14, Appl
18	100.2	8.1	1122	3	US-09-077-675A-9	Sequence 9, Appl1
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20	98.4	8.0	1029	3	US-09-077-675A-4	Sequence 4, Appl1
21	98.4	8.0	1029	4	US-09-077-674-4	Sequence 4, Appl1
22	95.6	7.8	1161	1	US-08-086-439C-2	Sequence 2, Appl1
23	95.6	7.8	1161	1	US-08-434-877-2	Sequence 2, Appl1
24	95.6	7.8	1367	3	US-08-475-742-3	Sequence 3, Appl1
25	95.6	7.8	1367	4	US-08-261-293-3	Sequence 3, Appl1
26	95.6	7.8	1370	1	US-08-056-051-1	Sequence 1, Appl1
27	95.6	7.8	1370	1	US-07-928-611-17	Sequence 17, Appl1





Db 88 GGGCCCCAGCAGACAGAGCTGTTTCATGCCATCTGTGCCACATACCTGCTGATCTTCGTG 147  
Qy 170 GTGGGGTAATGGGCATCTTCTGGTGTGATGTGATTTGTCACACATCAGACTTTGAAG 229  
Db 148 GTGGGGCTGTGGGCAATGGCTGACCTGTGCTGATCTGCGCCCAAGCCATCGC 207  
Qy 230 ACACCCACCAACTACTATCTCTTCAGCTTGGCAGCTTCAGATCTGCTGGCTCTCTTG 289  
Db 208 ACGCTACCAACTACTACTCTTCAGCTTGGCAGCTTGGCAGCTTGGCAGCTTGGCTGGTG 267  
Qy 290 GGGATGCTCTGGAATCTACGAGATGTGACAAATTTACCTTTTCCTGTTGGGCCCTGTG 349  
Db 268 GGCCTGCCCTGGAGCTCTATGAGATGTGCACAACTACCCCTTCCTGCTGGCGTTGGT 327  
Qy 350 GGATGCTACTTCAAGACAGCCCTCTTCGAGACTGTGTGCTTGGCTCCATCTCAGTGT 409  
Db 328 GGCTGCTATTTCGCGAGCTACTGTTTGGATGTGCTGCGCTGGCTCAGTGTCTCAAGCT 387  
Qy 410 ACCACGGTTAGCGTAGAGCGCTATGTGGCCATTGTCCACCTTTCCGAGCCAAAGCTGGAG 469  
Db 388 ACTGCCCTGAGCGTGAACGCTATGTGCGCTGGTGACCCACTCCAGGCCAGGTCCATG 447  
Qy 470 AGCAGCGGGACGGGCCCTCAGGATCTTCAGCCTAGTCTGGAGCTTCTCTGTGGTCTTT 529  
Db 448 GTGACGGGGGCCATGTGCGCGAGTGTGCGGCCCTCTGGGGCTCTGGCATGCTCTGC 507  
Qy 530 TCTTTGCCCAATACCAGCATTCAGCATCAAGTTCAGCACTTTCCCAAGGGTCTCTCC 589  
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Qy 590 GTACCTGGCTCAGCCAGCTGCACAGTCAACCAACCCATGTGGGTGTATAACTTGTATCATC 649  
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Qy 650 CAGCTACAGCTTCTCTTCTACATCTCCCAATGACCTCATCAGCTGCTCTCTATCTAC 709  
Db 628 CAGACCAACCGCGTGTCTTCTGCTGCTGCCATGGCCATCATGAGCGTCTCTACCTG 687  
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Qy 760 GGCTGGAATATTACAGACCCCTCTAGAAAGTCAGTCAAC----- 799  
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Qy 800 -----AAGATGCTGTTGTCTTGTGCTTGTGCTGCTGCTGCTGCTGCTGCTGCTGCT 847  
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Qy 848 TTCCATGTGACCGGCTCTTCTTTCAGCTTGTGGAAGAGTGGACAGAGTCCCTGGCTGCT 907  
Db 868 TTCCACGCCAGCGCTGATGTGAGGCTGCTGTCAGTGGACAGATGGCCCTGCACCTG 927  
Qy 908 GTGTTCAACCTCATFCCATGTGGTATCAGGTGTCTCTTTTATCTGAGCTCCCGCGTCAAC 967  
Db 928 GCCTTCAGCAGCTGACGCTCATCTCGGCATCTCTCTACCTGGGCTCGCGGCCAAC 987  
Qy 968 CCCATTATCTAACCTCTCTCTCGCGCTTCCGGCGCTTCCGAGGCTTTCGAATGTGTCTCC 1027  
Db 988 CCGGTGCTCTATAGCTCTATGTGACGCGCTTCCGAGAGACCTTCCAGGAGGCCCTGTGC 1047  
Qy 1028 C 1028  
Db 1048 C 1048

RESULT 5  
US-09-170-496D-209  
; Sequence 209, Application US/09170496D  
; Patent No. 6555339  
; GENERAL INFORMATION:

; APPLICANT: Behan, Dominic P.  
; APPLICANT: Chalmers, Derek T.  
; APPLICANT: Liaw, Chen W.  
; TITLE OF INVENTION: No. 6555339-Endogenous, Constitutively Activated Human G Prote  
; TITLE OF INVENTION: Receptors  
; FILE REFERENCE: AREN-0040  
; CURRENT APPLICATION NUMBER: US/09/170,496D  
; CURRENT FILING DATE: 1998-10-13  
; NUMBER OF SEQ ID NOS: 294  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 209  
; LENGTH: 1101  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-170-496D-209

Query Match 10.9%; Score 134.4; DB 4; Length 1101;  
Best Local Similarity 50.3%; Pred. No. 6,4e-28;  
Matches 439; Conservative 0; Mismatches 421; Indels 12; Gaps 4;  
Qy 140 GTGTCGTGGCCTATGCGCTGATCTTCTCTGTGGGGTAATGGCAATCTTCTGGTGTGC 199  
Db 136 GTACACCCACCTGCTGGGCACTTCTGTGTGGGTATCGCTGGCAACCTGCTCACCATG 195  
Qy 200 ATGTGATTTGTCGACATCAGACTTTGAAGACACCCACCACTACTATCTTTCAGCTTG 259  
Db 196 CTGGTGTGTGCGGCTTCCGCGAGCTGCGCACCAACCAACCTTACTTGTCCAGCATG 255  
Qy 260 GCAGTCTCAGATCTGTGCTGCTCTTGGGATGCTCTGGAATCTTAGGAGATGTGG 319  
Db 256 GCCTTCTCCGATCTGCTCATCTTCTCT--GCATGCCCTGGACCTGCTTGGCTCTGG 312  
Qy 320 CACAATTACCTTTCTCTGTTGGGCGCTGTGGGATGCTTCAAGACAGCGCTCTTCGAG 379  
Db 313 CAGTACCGGCGCTGGAACTTTCGGGACCTCTCTGCAAACTTTCCTCAATTTGTCAGTGAG 372  
Qy 380 ACTGTGTGCTTTGCCCTCCATTTCTCAGTGTCAACACGGTTAGCGTAGAGCGCTATGTGCC 439  
Db 373 AGCTGCACTACGACCGGTGCTCAACCATCACAGCGCTGAGCGTCTACTTTCGCC 432  
Qy 440 ATTGTCCACCTTTCCGAGCCAAAGCTGAGAGCAGCGCGGCGGCGCTCAGGATCCTC 499  
Db 433 ATCTGCTTCCCATCTCCGGGCCAAGTGGTGGTCAACAAAGGGGGGTGAAGCTGGTCACT 492  
Qy 500 AGCTTAGCTGAGAGCTTCTCTGTGCTTCTTTTGGCCCAATACACAGCATCCATGGCATC 559  
Db 493 TTGCTCATCTGGGCGGTGGCTTCTGCGAGCGCGGGCCCATCTTCTGCTAGTGGGGTG 552  
Qy 560 AAGTTCAGCAGCTTTCCCAAGCGGTCTCTGCTACCTGGCTCAGCGACCTGACAGTCAAC 619  
Db 553 GAGCAGGAGAACGCGACCGACCTTTGGGACACCAACGAGTGCAGCGCTGCTTTCGG 612  
Qy 620 AAACCATGTTGGGTATATACTTATCATCCAGCTACCTCAAGCTACCTGCTTCTACATCCTC 679  
Db 613 GTGGCTGCTGAGCTGCTCAGGTCATGGTGTGGTGTCCAGCATCTTCTTCT---TCTTT 669  
Qy 680 CCAATGACCTCATCAGCGCTCTTCTACTACTCATGTTGGGCTCAGGCTGAAGAGAGATGAA 739  
Db 670 CCTGCTTCTCTCAGGCTCTCTACAGTCTCATCGGAGGAAGCTGTGGCGAGGAGG 729  
Qy 740 TCCCTTGAGCGGAACAAAGTGGCTGTGAATATTACAGACCCCTCTAGAAAGTCACTACCC 799  
Db 730 CGGGGGATGCTGCTGCTGGGTGCTGCTCAGGAGCCAGAAC---ACAAGCAACCAAG 786  
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Db 847 CGATATTATTATTTCCAAATCTTTGAGCCCTGGCTCTCTTGGAGATTGCTCAGATCAGCCAG 906  
Qy 917 CTATCCATGTGTATCAGGTGCTTCTTTTATCTGAGCTCCGGGGTCAACCCCATATATC 976

Db 907 TACTGCAACCTCGTGTCTTTGTCTCTTACCTCAGTGTGCTGCATCAACCCCATCTGT 966  
Qy 977 TATAACCTCCCTGCTCGGCGCTTCGGGGCGGC 1008  
Db 967 TACAACATCATGTCCAAGAAGTACCGGTGCG 998

## RESULT 6

US-09-077-675A-15  
; Sequence 15, Application US/09077675A

; Patent No. 6242199

; GENERAL INFORMATION:

; APPLICANT: Pai, Lee-Yuh

; APPLICANT: Feighner, Scott C.

; APPLICANT: Howard, Andrew D.

; APPLICANT: Pong, Sheng-Shung

; APPLICANT: Van Der Ploeg, Leonardus H.T.

; TITLE OF INVENTION: RECEPTOR ASSAY

; NUMBER OF SEQUENCES: 16

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Merck & Co., Inc.

; STREET: P.O. Box 2000, 126 E. Lincoln Ave.

; CITY: Rahway

; STATE: NJ

; COUNTRY: USA

; ZIP: 07065-0900

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Diskette

; COMPUTER: IBM Compatible

; OPERATING SYSTEM: DOS

; SOFTWARE: FastSEQ for Windows Version 2.0

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/09/077,675A

; FILING DATE: 3-JUN-1998

; CLASSIFICATION:

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER:

; FILING DATE:

; ATTORNEY/AGENT INFORMATION:

; NAME: Cocuzzo, Anna L.

; REGISTRATION NUMBER: 42,452

; REFERENCE/DOCKET NUMBER: 19590P

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: 732-594-1273

; TELEFAX: 732-594-4720

; TELEX:

; INFORMATION FOR SEQ ID NO: 15:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 1092 base pairs

; TYPE: nucleic acid

; STRANDEDNESS: single

; TOPOLOGY: linear

; MOLECULE TYPE: cDNA

US-09-077-675A-15

Query Match 10.8%; Score 133.2; DB 3; Length 1092;  
Best Local Similarity 50.3%; Pred. No. 1.4e-27;  
Matches 439; Conservative 0; Mismatches 418; Indels 15; Gaps 4;

Qy 140 GTGCTGTGGCTATGGCTGATCTTCTGTGGGGGTAATGGGAATCTTCTGGTGTGC 199  
Db 133 GTCACCGCCACTCGGTGGCGCTCTTGTGTGGGCATCTCAGGCAACCTGCTCAGTATG 192  
Qy 200 ATGTGTATGTCGACATCAGACTTTGAAGACACCCACCACTACTTCTTTCAGCTTG 259  
Db 193 CTGTGTGTGTCCTCCGCGAGCTCGGCACCAACCACTACCTGTCAGCATG 252  
Qy 260 GCAGTCTCAGATCTGCTGCTCTTGGGGATGCTCTGGAAATCTAGGATGTGG 319  
Db 253 GCCCTTCGGATCTGCTACTTCC---TGTGTCATGCCGTGGACCTCGTCCGCTCTGG 309  
Qy 320 CACAATTACCTTTTCTTCTGGGCGCTGTGGATGCTACTTCAAGACAGCGCTCTTCGAG 379

Db 310 CAGTACGGCGCCTGGAACTTTCGGGAGCCTGCTCTGCAAACTCTTCCAGTTTGTTCAGCGAG 369  
Qy 380 ACTGTGTCTTGTCTCCATCTCAGTCTCACCAGGTTAGCGTAGAGCGCTATGTGGCC 439  
Db 370 AGCTGCACCTACGCCACGGTCTCACCATACCGCGGTGAGCGTGCAGCGCTACTTCCGCC 429  
Qy 440 ATTGTCCACCTTTTCCGAGCAAGCTGGAGAGCACGGCGGACGGCGGCTCAGGATCCTC 499  
Db 430 ATCTGCTTCCCTCTCGGGCCCAAGTGTGTGCTCACTAAGGGCCGCTGAAGCTGCTCATC 489  
Qy 500 AGCCTAGTCTGGAGCTTCTCTGTGTCTTTTCTTTTGGCCCAATACAGCATCATGGCATC 559  
Db 490 CTGTGTCTGTGGCGCTGCTTCTGACAGCGGGGGCCCATCTTCTGCTGCTGTGGCGGTG 549  
Qy 560 AAGTTCCAGCACTTTTCCCAACGGGTCTCTCCGTACCTGAGTCTGAGTCTGAGTCTGAGT 619  
Db 550 GAGCAGCAAAACGGCAGATCCCGGGGACACCAACGAATGCCGGGCCACCGAGTTTCCGT 609  
Qy 620 AAACCCATGTGGGTGTATTAACCTTGTATCATCAAGCTACAGCTTCTCTTCTACATCCTC 679  
Db 610 GTGCGCTCTGGGCTGCTCACCCTCATGTGTGGGTGTCACAGCTCTTCTTCTCTTCT 666  
Qy 680 CCAATGACCTTCATCAGGCTCTCTACTACCTCATGTTGGGCTCAGGCTGAAGAGAGATGAA 739  
Db 667 CCGGTCTTCTGCTCTCACTGTCTCTACAGTCTCATCGGGAGGAAGCTATGGCGGAGACGC 726  
Qy 740 TCCCTTGAGGCGAACAAGTGGCTGTGNAATTTACAGACACCTCTAGAAAGTCACTCACC 799  
Db 727 GGAGATCAGCGGTGGGGCGCTCTCGGGACACAGAACACAC-----AAGCAGACAGTG 780  
Qy 800 AAGATGCTGTTTGTCTTGGTCTCTGTTTGGCATCTGCTGAGCCCTTCCATGTGGAC 859  
Db 781 AAGATGCTGCTGTGGGTGCTTGTTCATCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 840  
Qy 860 CG---GCTCTTCTTTCAGCTTTGTGGAAGAGTGGAGAGTCCCTGGCTGTGTGTTCAC 916  
Db 841 AGATACCTCTTTTCCAAAGTCTCTCGAGCTGGCTCTCTGGAGATCGCTCAGATCAGCCAG 900  
Qy 917 CTATCATCTGTTGTTATCAGGTGTCTTCTTTTATCTGAGCTCGGGGTCAACCCCATTTATC 976  
Db 901 TACTGCAACCTGTGTCTTCTTGTCTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTG 960  
Qy 977 TATAACCTCTCTCTCGGCGCTTCGGGGCGGC 1008  
Db 961 TACAACATCATGTCCAAGAAGTACCGGTGCG 992

## RESULT 7

US-09-077-674-15

; Sequence 15, Application US/09077674

; Patent No. 6531314

; GENERAL INFORMATION:

; APPLICANT: Arena, Joseph P.

; APPLICANT: Cully, Doris F.

; APPLICANT: Feighner, Scott D.

; APPLICANT: Howard, Andrew D.

; APPLICANT: Liberator, Paul A.

; APPLICANT: Schaeffer, James M.

; APPLICANT: Van Der Ploeg, Leonardus

; TITLE OF INVENTION: GROWTH HORMONE SECRETAGOGUE RECEPTOR FAMILY

; NUMBER OF SEQUENCES: 16

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Merck & Co., Inc.

; STREET: P.O. Box 2000, 126 E. Lincoln Ave.

; CITY: Rahway

; STATE: NJ

; COUNTRY: USA

; ZIP: 07065-0900

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Diskette

; COMPUTER: IBM Compatible

; OPERATING SYSTEM: DOS

SOFTWARE: FASTSEQ for Windows Version 2.0

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/077,674

FILING DATE: 3-JUN-1998

CLASSIFICATION: 536

PRIOR APPLICATION DATA:

APPLICATION NUMBER:

FILING DATE:

ATTORNEY/AGENT INFORMATION:

NAME: Cocuzzo, Anna L.

REGISTRATION NUMBER: 42,452

REFERENCE/DOCKET NUMBER: 19589P

TELECOMMUNICATION INFORMATION:

TELEPHONE: 732-594-1273

TELEFAX: 732-594-4720

TELEX:

INFORMATION FOR SEQ ID NO: 15:

SEQUENCE CHARACTERISTICS:

LENGTH: 1092 base pairs

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: cDNA

US-09-077-674-15

Query Match 10.8%; Score 133.2; DB 4; Length 1092;

Best Local Similarity 50.3%; Pred. No. 1.4e-27;

Mismatches 439; Conservative 0; Mismatches 418; Indels 15; Gaps 4;

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157 ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
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161 CAGTACCGGCTTGGAACTTGGCGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 369
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179 CTGTCTATCTGGCGCTGCTTTCGAGCGCGGCGGCGGCTTCTGCTGGTGGCGGTG 549
180 ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
181 ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
182 AAGTTCAGCATCTTCCACAGGGTCTCCGTACCTGGCTCAGCCACCTGCACAGTACC 619
183 ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
184 ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
185 GAGCAGCAAAACGGCAGATGCCCCGGGACCAACAGAAATGCGCGCCACCGAGTTC 609
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188 AAACCCATGTGGGTATTAATCTGATCATCCAAAGCTACCAAGTTCCTCTTCTACAT 679
189 ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
190 ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
191 GTGCGCTGCGGCTGCTCAGCTGATGGTGGGTGCTCAGCGCTCTCTCTCTCTCTCT 666
192 ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
193 ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
194 CCAATGACCTCATACAGCTCTCTACTACCTCATGGGCTCAGGCTGAAGAGATGAA 739
195 ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
196 ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
197 CCGGTCTCTGCTCTACTGCTCTACAGTCTCATCGGAGGAAGCTATGCGGAGAGCG 726
198 ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
199 ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
200 TCCCTTGAGGCGCAAAAGTGGTGTGAATATTCACAGACCCCTCTAGAAGTCACTC 799
201 ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
202 ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
203 GGAGATGACAGCGGTGGCGCTCGCTCCCGGACCAAGAACAC-----AAGACAG 780
204 ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
```

## RESULT 8

US-09-077-675A-6

Sequence 6, Application US/09077675A

Patent No. 6242199

GENERAL INFORMATION:

APPLICANT: Pal, Lee-Yuh

APPLICANT: Feighner, Scott C.

APPLICANT: Howard, Andrew D.

APPLICANT: Pong, Sheng-Shung

APPLICANT: Van Der Ploeg, Leonardus H.T.

TITLE OF INVENTION: RECEPTOR ASSAY

NUMBER OF SEQUENCES: 16

CORRESPONDENCE ADDRESS:

ADDRESSEE: Merck & Co., Inc.

STREET: P.O. Box 2000, 126 E. Lincoln Ave.

CITY: Rahway

STATE: NJ

COUNTRY: USA

ZIP: 07065-0900

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette

COMPUTER: IBM Compatible

OPERATING SYSTEM: DOS

SOFTWARE: FASTSEQ for Windows Version 2.0

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/077,675A

FILING DATE: 3-JUN-1998

CLASSIFICATION:

PRIOR APPLICATION DATA:

APPLICATION NUMBER:

FILING DATE:

ATTORNEY/AGENT INFORMATION:

NAME: Cocuzzo, Anna L.

REGISTRATION NUMBER: 42,452

REFERENCE/DOCKET NUMBER: 19590P

TELECOMMUNICATION INFORMATION:

TELEPHONE: 732-594-1273

TELEFAX: 732-594-4720

TELEX:

INFORMATION FOR SEQ ID NO: 6:

SEQUENCE CHARACTERISTICS:

LENGTH: 1088 base pairs

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: cDNA

US-09-077-675A-6

Query Match 10.8%; Score 132.8; DB 3; Length 1088;

Best Local Similarity 50.2%; Pred. No. 1.8e-27;

Mismatches 438; Conservative 0; Mismatches 422; Indels 12; Gaps 4;

140 GTCTGTGTCGCTATCGCTGATCTCTCTGTTGGGGTATGGCAATCTTCTGGTGC 199

141 ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||

142 ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||

123 GTCACAGCCACCTGCTGGTATCGTGGCAACCTGCTCACCATTG 182

QY 200 ATGGTGATGTCGACATCAGACTTTGAAGACACACCACCACTACTATCTCTTCAAGTGG 259  
Db 183 CTGGTGGTTCGCGCTTCGCGAGCTGGCGACACCAACCACTTACCTGTCCAGCATG 242  
QY 260 CGAGTCTCAGATCTCGTCTGCTCTTGGGATGCTCTGGAATCTACGAGATGG 319  
Db 243 GCCTTCTCGATCTCTCATCTTCTCT---GCATGCCCTCGGACTGTTGCGCTCTGG 299  
QY 320 CACAATTAACCTTTCTGCTGGGCTCTGAGTCTACTTCAAGACAGCCCTCTTCGAG 379  
Db 300 CAGTACCGGCCCTGGAACCTTCGGCGACCTCTCTCAAACTTCTCAATTCGTAGTGA 359  
QY 380 ACTGTGCTGTTGGCTTCCATCTCAGTGTACACAGGTTAGGTAGAGGCTATGTGGCC 439  
Db 360 AGCTGCACCTACGCCACCGGCTGCTACCATCACAGGCTGAGCGTGGAGCTTCTGCC 419  
QY 440 ATTGTCCACCTTTCCGAGCAAGCTGGAGACGCGCGGACGCGGCTCAGGATCTC 499  
Db 420 ATCTGCTTCCCACTCCGGGCCAAGGTGGTGTACCAAGGGGCGGTGAAGTGTGTATC 479  
QY 500 AGCCTAGTCTGGAGCTTCTCTGTGTCTTTTCTTTTGGCCCAATACCAAGATCCATGC 559  
Db 480 TTCGTCTATCTGGCGCTGGCTTCTGACGCGCGGCCCATCTTCTGCTAGTCCGGGTG 539  
QY 560 AAGTTCACGACTTTCCCAACGGGTCTCCCGTACTCTGCTAGCTAGCCACAGTCAACC 619  
Db 540 GAGCAGGAGAACGCGACCGACCTTTGGGACACCAACAGTGTGGCGCCACCGAGTTGG 599  
QY 620 AAACCCATGTGGTGTATTAACCTTGATCATCAAGCTACCAAGCTTCTCTTACATCTTC 679  
Db 600 GTGCGCTCTGGACTCTCAGGTCATGTGTGGTGTCCAGCATCTTCTTCT---TCCTT 656  
QY 680 CCAATGACCTCATCAGGCTCTCTACTACCTATGCGGCTCAGGCTGAAGAGAGATGAA 739  
Db 657 CTTGTCTTCTCTCAGGCTCTCTACAGTCTCAGGAGGAGCTGTGGCGAGGAGG 716  
QY 740 TCCCTTGAGGGAACAAAGTGGCTGTGAATATTCACAGACCTCTAGAAAGTCACTACC 799  
Db 717 CGCGCGATGCTGTGCTGGTGGCTCGCTCAGGAGGACCAACCAAGCAACCTG---G 773  
QY 800 AGATGCTGTTGCTTGGTCTCTGTTTGGCCATCTGCTGACCCCTTCCATGTGGAC 859  
Db 774 AAATGCTGGGTGTAGTGTGTGCTTCTGCTCTGCTGCTGCTGCTGCTGCTGCTGCTG 833  
QY 860 CG---GCTCTTCTCAGCTTGTGGAAGAGTGACAGATGCTCCTGGCTGTGTGTCAAC 916  
Db 834 CGATATTATTTTCCAACTCTTTCAGCTGCTCTTGGAGATGCTCAGATCAGCCAG 893  
QY 917 CTCATCCATGGATATCAGGTGTCTCTTTTATCTAGGCTCGGCGGTCAACCCCATATC 976  
Db 894 TACTGCAACCTGCTGCTCTTGTCTCTTCTACCTCAGTGTGCTGCTGCTGCTGCTGCTG 953  
QY 977 TATAACCTCTCTGCTGCGGCTTCCGGGCGGC 1008  
Db 954 TACAACATCATCTCCAAAGTACCGGGTGGC 985

RESULT 9  
US-09-077-674-6  
; Sequence 6, Application US/09077674  
; Patent No. 6531314  
; GENERAL INFORMATION:  
; APPLICANT: Arena, Joseph P.  
; APPLICANT: Cully, Doris F.  
; APPLICANT: Feighner, Scott D.  
; APPLICANT: Howard, Andrew D.  
; APPLICANT: Liberator, Paul A.  
; APPLICANT: Schaeffer, James M.  
; APPLICANT: Van Der Ploeg, Leonardus  
; TITLE OF INVENTION: GROWTH HORMONE SECRETAGOGUE RECEPTOR FAMILY  
; NUMBER OF SEQUENCES: 16  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Merck & Co., Inc.

; STREET: P.O. Box 2000, 126 E. Lincoln Ave.  
; CITY: Rahway  
; STATE: NJ  
; COUNTRY: USA  
; ZIP: 07065-0900  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: DOS  
; SOFTWARE: FastSEQ for Windows Version 2.0  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/077,674  
; FILING DATE: 3-JUN-1998  
; CLASSIFICATION: 536  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER:  
; FILING DATE:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Cocuzzo, Anna L.  
; REGISTRATION NUMBER: 42,452  
; REFERENCE/DOCKET NUMBER: 19589P  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 732-594-1273  
; TELEFAX: 732-594-4720  
; TELEX:  
; INFORMATION FOR SEQ ID NO: 6:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 1088 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: cDNA  
; US-09-077-674-6  
  
Query Match 10.8%; Score 132.8; DB 4; Length 1088;  
Best Local Similarity 50.2%; Pred. No. 1.8e-27;  
Matches 438; Conservative 0; Mismatches 422; Indels 12; Gaps 4;  
  
QY 140 GTGCTGTGGCTATCGCTGATCTTCTGTGGTGGGTAATGGCAATCTTCTGTGTGC 199  
Db 123 GTACAGACCACTGCGTGGCACTCTTGTGGTGGTATCGCTGGCAACCTGCTCACCATG 182  
QY 200 ATGTGTATGTCGACATCAGACTTTGAAGACACCAACCACTACTATCTCTTCAAGTGG 259  
Db 183 CTGTGGTGTGCGCTTCCGCGAGCTGCGCACCAACCACTCTACCTGTCCAGCATG 242  
QY 260 CGAGTCTCAGATCTGCTGCTCTTGGGATGCTCTGGAATCTACGAGATGG 319  
Db 243 GCCTTCTCGATCTGCTCATCTCTCT---GCATGCCCTGGACCTGTTGCGCTCTGG 299  
QY 320 CACAATTAACCTTTCTGCTGGGCTCTGAGTGTCTTCAAGACAGCCCTCTTTCGAG 379  
Db 300 CAGTACCGGCCCTGGAACCTTCGGCGACCTCTCTCAAACTTCTCAATTCGTAGTGA 359  
QY 380 ACTGTGCTGTTGGCTTCCATCTCAGTGTACACAGGTTAGGTAGAGGCTATGTGGCC 439  
Db 360 AGCTGCACCTACGCCACCGTGTCTACCATCACAGGCTGAGCGTGGAGCTTCTGCC 419  
QY 440 ATTGTCCACCTTTCCGAGCAAGCTGGAGACGCGCGGACGCGGCTCAGGATCTC 499  
Db 420 ATCTGCTTCCCACTCCGGGCCAAGGTGGTGTACCAAGGGGCGGTGAAGTGTGTATC 479  
QY 500 AGCCTAGTCTGGAGCTTCTCTGTGTCTTTTCTTTTGGCCCAATACCAAGATCCATGC 559  
Db 480 TTCGTCTATCTGGCGCTGGCTTCTGACGCGCGGCCCATCTTCTGCTAGTCCGGGTG 539  
QY 560 AAGTTCACGACTTTCCCAACGGGTCTCCCGTACTCTGCTAGCTAGCCACAGTCAACC 619  
Db 540 GAGCAGGAGAACGCGACCGACCTTTGGGACACCAACAGTGTGGCGCCACCGAGTTGG 599  
QY 620 AAACCCATGTGGTGTATTAACCTTGATCATCAAGCTACCAAGCTTCTCTTACATCTTC 679  
Db 600 GTGCGCTCTGGACTCTCAGGTCATGTGTGGTGTCCAGCATCTTCTTCT---TCCTT 656





APPLICANT: Liaw, Chen W.  
TITLE OF INVENTION: No. 6555339-Endogenous, Constitutively Activated Human G Protein-  
FILE REFERENCE: AREN-0040  
CURRENT APPLICATION NUMBER: US/09/170,496D  
CURRENT FILING DATE: 1998-10-13  
NUMBER OF SEQ ID NOS: 294  
SOFTWARE: PatentIn version 3.1  
SEQ ID NO 87  
LENGTH: 1101  
TYPE: DNA  
ORGANISM: Homo sapiens  
US-09-170-496D-87

Query Match 10.8%; Score 132.8; DB 4; Length 1101;  
Best Local Similarity 50.2%; Pred. No. 1.8e-27;  
Matches 438; Conservative 0; Mismatches 422; Indels 12; Gaps 4;

QY 140 GTGCTGGGCTATGCGGTGATCTCTGCTGCTGCTGGGATGCTCTGGAATCTACGAGATGG 319  
DB 136 CTCACAGCCACCTGCGTGGCACTCTCTGCTGCTGGGATGCTCTGGAATCTACGAGATGG 195  
QY 200 ATGGTGATGTCGACATCAGACTTTGAAGACACCCACCACTACTATCTCTTACGCTTG 259  
DB 196 CTGGTGGTGTGCGGCTTCGCGAGCTGCGACACCACTACTATCTCTTACGAGATGG 255  
QY 260 CGAGTCTCAGATCTGCTGCTGCTCTGCTGGGATGCTCTGGAATCTACGAGATGG 319  
DB 256 GCCTTCTCGATCTGCTATCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 312  
QY 320 CACAATACCTTTCT 379  
DB 313 CAGTACCGGCTCTGGAATCTGCGGACCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 372  
QY 380 ACTGTGCTGCTTGTCT 439  
DB 373 AGCTGCACCTACGCGCAGGCTGCTACCATCAGCGCTGAGCGCTGAGCGCTACTCTGCC 432  
QY 440 ATGTGTCACCTTTCCGAGCCAAAGCTGGAGACGACGCGCGGCGGCTCTAGGATCTCTC 499  
DB 433 ATCTGCTTCCCACTCCGCGCCAAAGTGGTGTGTCACCAAGGGGGGTGAAGCTGTCTATC 492  
QY 500 AGCTTAGTCTGAGGCTCTCTGCTGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 559  
DB 493 TTGCTCATCTGGGCGCTGCT 552  
QY 560 AAGTTCACGACTTTCCCAAGGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 619  
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QY 620 AAACCCATGTGGGTGTATTAAGTGTATCATCAAGCTACGCTCTCTCTCTCTCTCTCTCT 679  
DB 613 GTGCGCTCTGGACTCTCTACGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 669  
QY 680 CCAATGACCTCTACGCGTCT 739  
DB 670 CCTGCT 729  
QY 740 TCCCTTGAGGCGAACAAGTGGCTGTGAATTTACACAGACCTCTCTCTCTCTCTCTCTCT 799  
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QY 800 AAGATGCTGTTGCT 859  
DB 787 AAATGCTGGCTGTAGTGTGTTGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 846  
QY 860 CG---GCT 916  
DB 847 CGATATTTATTTTCCAAATCT 906  
QY 917 CTCATCCATGTGATCAGGCT 976  
DB 907 TACTGCAACCTGCT 966

QY 977 TATAACCT 1008  
DB 967 TACAACATCATGTCCTCAAGAACTACCGGGTGGC 998

RESULT 12  
US-09-077-675A-1  
Sequence 1, Application US/09077675A  
Patent No. 6242199  
GENERAL INFORMATION:  
APPLICANT: Pal, Lee-Yuh  
APPLICANT: Feighner, Scott C.  
APPLICANT: Howard, Andrew D.  
APPLICANT: Pong, Sheng-Shung  
APPLICANT: Van Der Ploeg, Leonardus H.T.  
TITLE OF INVENTION: RECEPTOR ASSAY  
NUMBER OF SEQUENCES: 16  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Merck & Co., Inc.  
STREET: P.O. Box 2000, 126 E. Lincoln Ave.  
CITY: Rahway  
STATE: NJ  
COUNTRY: USA  
ZIP: 07065-0900  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: DOS  
SOFTWARE: FastSeq for Windows Version 2.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/077,675A  
FILING DATE: 3-JUN-1998  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER:  
FILING DATE:  
ATTORNEY/AGENT INFORMATION:  
NAME: Cocuzzo, Anna L.  
REGISTRATION NUMBER: 42,452  
REFERENCE/DOCKET NUMBER: 19590P  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 732-594-1273  
TELEFAX: 732-594-4720  
TELEX:  
INFORMATION FOR SEQ ID NO: 1:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 1063 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: cDNA  
US-09-077-675A-1

Query Match 10.4%; Score 128; DB 3; Length 1063;  
Best Local Similarity 49.9%; Pred. No. 3.9e-26;  
Matches 435; Conservative 0; Mismatches 425; Indels 12; Gaps 4;

QY 140 GTGCTGTGGCTATGCGCTGATCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 199  
DB 98 CTCACCGCCACCTGCGTGGCGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 157  
QY 200 ATGGTGATGTCGACATCAGACTTTGAAGACACCCACCACTACTATCTCTCTCTCTCTCT 259  
DB 158 CTGCTAGTGTACGGCTTCGGCGAGATGCCACACCACTACTCTCTCTCTCTCTCTCTCT 217  
QY 260 CGAGTCTCAGATCT 319  
DB 218 GCCTTCTCGGACTACTCATCT 274  
QY 320 CACAATTTACCTTTCT 379  
DB 275 CAGTACCGGCTTTGGAACCTTGCAACCTTGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 334







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OM nucleic - nucleic search, using sw model

Run On: August 24, 2003, 13:24:07 ; Search time 374.314 Seconds  
(without alignments)  
7393.506 Million cell updates/sec

Title: US-09-609-146-24

Perfect score: 1231

Sequence: 1 gttgtgattttaagctcag.....aggagtgtcagaagcctc 1231

Scoring table: IDENTITY\_NUC

Gapop 10.0 , Gapext 1.0

Searched: 1517243 seqs, 1124081882 residues

Total number of hits satisfying chosen parameters: 3034486

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published\_applications\_NA.\*

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- 3: /cgn2\_6/ptodata/1/pubpna/US06\_NEW\_PUB.seq.\*
- 4: /cgn2\_6/ptodata/1/pubpna/US06\_PUBCOMB.seq.\*
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- 9: /cgn2\_6/ptodata/1/pubpna/US09A\_PUBCOMB.seq.\*
- 10: /cgn2\_6/ptodata/1/pubpna/US09B\_PUBCOMB.seq.\*
- 11: /cgn2\_6/ptodata/1/pubpna/US09C\_PUBCOMB.seq.\*
- 12: /cgn2\_6/ptodata/1/pubpna/US09\_NEW\_PUB.seq.\*
- 13: /cgn2\_6/ptodata/1/pubpna/US10A\_PUBCOMB.seq.\*
- 14: /cgn2\_6/ptodata/1/pubpna/US10B\_PUBCOMB.seq.\*
- 15: /cgn2\_6/ptodata/1/pubpna/US10\_NEW\_PUB.seq.\*
- 16: /cgn2\_6/ptodata/1/pubpna/US60\_NEW\_PUB.seq.\*
- 17: /cgn2\_6/ptodata/1/pubpna/US60\_PUBCOMB.seq.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	790.8	64.2	1248	12	US-10-272-983-11
2	788	64.0	1239	14	US-10-225-567A-556
3	472.6	38.4	801	11	US-09-782-974C-17
4	330.6	26.9	1212	14	US-10-083-168-13
5	330.6	26.9	1212	14	US-10-251-385-113
6	330.6	26.9	1212	14	US-10-225-567A-539
7	330.6	26.9	1212	14	US-10-290-078-16
8	330.6	26.9	1212	14	US-10-230-078-17
9	330.6	26.9	1535	14	US-10-146-419-12
10	330.6	26.9	1535	14	US-10-146-123-12
11	329	26.7	1212	14	US-10-083-168-82
12	329	26.7	1212	14	US-10-251-385-223
13	134.4	10.9	1101	14	US-10-251-385-209
14	132.8	10.8	1101	14	US-10-251-385-87
15	114.2	9.3	1788	14	US-10-270-333-194
16	111.4	9.0	1258	9	US-09-804-551B-25

17	111.4	9.0	1287	14	US-10-270-333-113	Sequence 113, App
18	111.4	9.0	4314	14	US-10-270-333-112	Sequence 112, App
19	104.8	8.5	1239	14	US-10-225-567A-472	Sequence 472, App
20	104.8	8.5	1239	14	US-10-290-078-13	Sequence 13, Appl
21	104.8	8.5	1239	14	US-10-290-078-14	Sequence 14, Appl
22	102.4	8.3	588	11	US-09-791-279-44	Sequence 44, Appl
23	100.2	8.1	870	14	US-10-225-567A-139	Sequence 139, App
24	95.6	7.8	1367	14	US-10-241-313-3	Sequence 3, Appl1
25	95.6	7.8	1370	14	US-10-224-260-17	Sequence 17, Appl
26	95.6	7.8	1466	14	US-10-224-260-19	Sequence 19, Appl
27	95.6	7.8	1504	14	US-10-225-567A-105	Sequence 105, App
28	95.6	7.8	1610	14	US-10-224-260-21	Sequence 21, Appl
29	95	7.7	4131	12	US-10-101-510-417	Sequence 417, App
30	95	7.7	4131	12	US-10-101-510-752	Sequence 752, App
31	95	7.7	4131	14	US-10-225-567A-206	Sequence 206, App
32	91.6	7.4	1529	12	US-10-205-219-22	Sequence 22, Appl
33	90.6	7.4	1983	14	US-10-270-333-191	Sequence 191, App
34	81.6	6.6	1427	10	US-09-967-768A-296	Sequence 296, App
35	80	6.5	1167	14	US-10-225-567A-317	Sequence 317, App
36	76.8	6.2	1176	14	US-10-225-567A-311	Sequence 311, App
37	70.4	5.7	990	14	US-10-270-333-116	Sequence 116, App
38	70.4	5.7	1773	14	US-10-112-599A-3	Sequence 3, Appl1
39	70.4	5.7	1773	14	US-10-225-567A-107	Sequence 107, App
40	70.2	5.7	1261	14	US-10-241-313-16	Sequence 16, Appl
41	70.2	5.7	1496	14	US-10-225-567A-103	Sequence 103, App
42	70	5.7	1296	9	US-09-826-508-21	Sequence 21, Appl
43	70	5.7	1296	9	US-09-899-532-1	Sequence 1, Appl1
44	70	5.7	1296	11	US-09-990-940-5	Sequence 5, Appl1
45	70	5.7	1296	12	US-10-272-983-37	Sequence 37, Appl

ALIGNMENTS

RESULT 1

- US-10-272-983-11
- Sequence 11, Application US/10272983
- Publication No. US20030148450A1
- GENERAL INFORMATION:
- APPLICANT: Chen, Ruoping
- APPLICANT: Dang, Huang T.
- APPLICANT: Liaw, Chen W.
- APPLICANT: Lin, I-Lin
- TITLE OF INVENTION: Human Orphan G Protein Coupled Receptors
- FILE REFERENCE: AREN0050
- CURRENT APPLICATION NUMBER: US/10/272,983
- CURRENT FILING DATE: 2002-10-17
- PRIOR APPLICATION NUMBER: US/09/417,044
- PRIOR FILING DATE: 1999-10-12
- PRIOR APPLICATION NUMBER: 60/109,213
- PRIOR FILING DATE: 1998-11-20
- PRIOR APPLICATION NUMBER: 60/120,416
- PRIOR FILING DATE: 1999-02-16
- PRIOR APPLICATION NUMBER: 60/121,851
- PRIOR FILING DATE: 1999-02-26
- PRIOR APPLICATION NUMBER: 60/123,946
- PRIOR FILING DATE: 1999-03-12
- PRIOR APPLICATION NUMBER: 60/123,949
- PRIOR FILING DATE: 1999-03-12
- PRIOR APPLICATION NUMBER: 60/136,436
- PRIOR FILING DATE: 1999-05-28
- PRIOR APPLICATION NUMBER: 60/136,437
- PRIOR FILING DATE: 1999-05-28
- PRIOR APPLICATION NUMBER: 60/136,439
- PRIOR FILING DATE: 1999-05-28
- PRIOR APPLICATION NUMBER: 60/136,567
- PRIOR FILING DATE: 1999-05-28
- Remaining Prior Application data removed - See File Wrapper or PALM.
- NUMBER OF SEQ ID NOS: 74
- SOFTWARE: PatentIn ver. 2.1
- SEQ ID NO 11
- LENGTH: 1248
- TYPE: DNA

ORGANISM: Homo sapiens  
US-10-272-983-11

Query Match 64.28; Score 790.8; DB 12; Length 1248;  
Best Local Similarity 79.28; Pred. No. 2e-247;  
Matches 958; Conservative 0; Mismatches 237; Indels 15; Gaps 1;  
QY 17 TCAGTAATGGAAACCTGAAATGCTTCTCGGATCCAC-----GATCCT 61  
DB 4 TCAGGATGAAAACTTCAGATGCTTCTGATCTACCGAGAACTAGAGATCCA 63  
QY 62 TCATGAAGTACTTTGAACAGCAGAGAGTACTTGGCCACCTGTGTGGACCCAGCGC 121  
DB 64 TTCAGAAACACCTGAACAGCAGCAGGAGTATCGCCCTTCTCTGCGGACCTCGGCGC 123  
QY 122 AGTGACCTATCCCTTCGGGTGCTGTGGCCATATCGCGTATCTCTCGTGGGGTAAATG 181  
DB 124 AGGCACCTCTCTCCCGGTGCTGTGGTGTATGTGCCAATTTTGTGGTGGGGTCAAT 183  
QY 182 GGCAATCTTCTGGTGCATGGTGAATGTCGGACATCAGACTTTGAAGACACCCACCAAC 241  
DB 184 GGCAATGCTGTGTGGTGGTGTATCTGCACACAGCGCTATGAAGAGCCGCCACCAAC 243  
QY 242 TACTATCTCTTACGCTTGGCAGTCTCAGATCTCTGCTGTCTGTGGGATGCCCTCTG 301  
DB 244 TACTACCTCTTACGCTTGGCGGTCTCTGACCTCTCTGCTGTCTCTTGGAAATGCCCTG 303  
QY 302 GAAATCTACAGATGTGGCACAATTACCCTTTCTCTCGGGCTGTGGATGCTACTTC 361  
DB 304 GAGGTCTATGAGATGTGGCCAACTACCTTTCTTGTGGGCGCCGTGGCTCTACTTC 363  
QY 362 AAGACAGCCCTCTTCGAGAGTGTGTGCTTTCCTCATCTCAGTGTACACAGGTTAGC 421  
DB 364 AAGACGGCCCTCTTTGAGACCGTGTGCTTGGCCCTCCATCTCAGCATCACCACCGTCAGC 423  
QY 422 GTAGAGCGCTATGTGGCCATTTGCCACCCCTTTCGAGCCCAAGCTGGAGCAGCGCGGA 481  
DB 424 GTGGAGCGCTTACGTGGCCATCTTACACCCGCTTCCGGCGCAAACTGCAGAGCACCCGCGC 483  
QY 482 CGGGCCCTCAGGATCTCAGCTAGTCTGGAGCTTCTCTGTGCTCTTTTGGCCCAAT 541  
DB 484 CGGGCCCTCAGGATCTCAGCTAGTCTGGAGCTTCTCTGTGCTCTTTTGGCCCAAC 543  
QY 542 ACCAGCATCCATGGCATCAAGTTCCAGCACTTTCCCAAGCGGTCTCCGTACCTGGCTCA 601  
DB 544 ACCAGCATCCATGGCATCAAGTTCCAGCACTTTCCCAAGCGGTCTCCGTACCTGGCTCG 603  
QY 602 GCCACCTGCAGTGCACCAACCCATGTGGGTGTATTAATTTGATCATCAAGTACACAGC 661  
DB 604 GCCACCTGTACGGTGCATCAAGCCCATGTGGATCTACAATTTTCATCATCAGGTACCTCC 663  
QY 662 TTCTCTCTTACATCTCCCAATGACCCCTCATCAGGCTCTCTTACTACCTCATGGGCTC 721  
DB 664 TTCTCTTCTTACCTCTCCCAATGACCTGTATCATCAGTCTCTTACTACCTCATGGGCTC 723  
QY 722 AGCTGAAGAGATGAATCCCTTTGAGCGCAACAAAGTGGCTGTGAATATTCAGACACC 781  
DB 724 AGACTAAGAAAGACAAATCTCTTGAAGCAGATGAAGGAAATGCAATATTCAGACACC 783  
QY 782 TCTAGAAAGTCAAGTCAAGATGCTGTGTTGCTTGGTCTCTGTGTTGGCATCTCGTGG 841  
DB 784 TGCAGAAATACAGTCAACAGATGCTGTTGCTTGGTCTTGTAGTGTGTTGCTATCTGTTGG 843  
QY 842 ACCCCCTCTCATGTGACCGGCTCTTCTCAGCTTTGTGAGAGTGGACAGTCCCTCG 901  
DB 844 GCCCGCTTCCATTCAGCGACTCTTCTCAGCTTTGTGAGAGTGGAGTGAATCCCTCG 903  
QY 902 GCTGCTGTGTCAACCTCATCATGTGGTATCAGGTGTCTTTCTTTTATCTGAGCTCCGG 961  
DB 904 GCTGCTGTGTCAACCTCTGTCATGTGGTGTGAGGTGTCTTCTTCTACCTGAGCTCAGCT 963  
QY 962 GTCAACCCCATTTATATTAACCTCTCTGTGGCGCTTCCGGCGGCCCTTCGAAATGTT 1021  
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DB 964 GTCAACCCCATTTATCTATAACCTACTGTCTCGCGCTTCCAGGACGATTTCCAGAAATGTG 1023  
QY 1022 GTCTCCCTACCTGCAATGCTGCCATTCCTCCGCTACGGGACAGGACCTCCAGCCCGAG 1081  
DB 1024 ATCTCTTCTTCCACAAACAGTGGCAGCTCCACAGATGACCCAGATTTGCCACCTTGGCCAG 1083  
QY 1082 AAGATCATCTTCTTGACAGAAATGTCACCTCTGTGGAGCTGACAGAGATGAGGCCCCCAG 1141  
DB 1084 CGGAACATCTTCTTGACAGAAATGCCACTTTGTGGAGCTGACCGAAGATATAGGTCCCCAA 1143  
QY 1142 TTCCCTGGTCACTATCCATCCACACACCACTTACACAGGCGCCCTGTGCAGGAGAG 1201  
DB 1144 TTCCCATGTGAGTCACTCCATGCAACCTCTCAGCTCCCAACAGCCCTCTCTAGTGAACAG 1203  
QY 1202 GTACCATAAA 1211  
DB 1204 ATGTCAAGAA 1213  
RESULT 2  
US-10-225-567A-556  
; Sequence 556, Application US/10225567A  
; Publication No. US20030113798A1  
; GENERAL INFORMATION:  
; APPLICANT: LifeSpan Biosciences  
; APPLICANT: Brown, Joseph P.  
; APPLICANT: Burmer, Glenna C.  
; APPLICANT: Roush, Christine L.  
; TITLE OF INVENTION: ANTIGENIC PEPTIDES AND ANTIBODIES FOR G PROTEIN-COUPLED RECEPT  
; FILE REFERENCE: 1920-4-4  
; CURRENT APPLICATION NUMBER: US/10/225,567A  
; PRIOR FILING DATE: 2001-12-19  
; PRIOR APPLICATION NUMBER: 60/257,144  
; PRIOR FILING DATE: 2000-12-19  
; NUMBER OF SEQ ID NOS: 2292  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 556  
; LENGTH: 1239  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-10-225-567A-556  
Query Match 64.0%; Score 788; DB 14; Length 1239;  
Best Local Similarity 80.0%; Pred. No. 1.6e-246;  
Matches 926; Conservative 0; Mismatches 232; Indels 0; Gaps 0;  
QY 54 ACATCTCTCATGAAGTACTTGAACAGCAGCAGAGAGTACTTGGCCACCTGTGTGGAC 113  
DB 47 AAGATCCATTTCCAGAAACACCTTGAACAGCAGCAGAGAGTATCTGGCTTCTCTGCGGAC 106  
QY 114 CCAAGCGCAGTACCTTATCCCTTCCGCTGTCTGTGGCTATGGCTGTATCTTCTGTGGTGG 173  
DB 107 CTCGGCGCAGCCTTCTTCTCTCCCGTGTCTGTGGTGTATGTGCCAATTTTGTGTGGTGG 166  
QY 174 GGTAAATGGCAATCTTCTGTGTGATGTGTATGTCGACATCAGACTTTGAAGACAC 233  
DB 167 GGTCTATTTGCAATGCTTGTGTGCTGTGCTGTGATTTGCAGCAGCAGGCTATCAAGACGC 226  
QY 234 CCACCAACTACTATCTTCTCAGCTTGGCAGTCTCAGATCTGCTGTGCTCTCTTGGGGA 293  
DB 227 CCACCAACTACTATCTTCTCAGCTTGGCAGTCTCAGCTTGGCTCTCTCTCTTGGAA 286  
QY 294 TGCCTCTGGAATCTACAGATGTGCAAAATTTACCTTTTCTCTTCTGGGCTGTGGAT 353  
DB 287 TGCCTCTGAGGTCTATGAGATGTGGCAACTACCTTTCTTGTTCGGGCGCTGGGCT 346  
QY 354 GCTACTTCAAGACAGCCCTTCTCGAGACTGTGTGCTTTTGCCTCCATTTCTCAGTGTCACCA 413  
DB 347 GCTACTTCAAGACAGCCCTTCTTGAAGACCGTGTGCTTGCCTCCATCTCAGCATCACCA 406  
QY 414 CGGTTAGCTAGAGCGCTATGTGGCCATGTCTCACCCCTTTCCGAGCCAGCTGGAGNCA 473  
DB 407 CGGTACGCTGGAGCGCTACGTGGCCATCTTACACCCGTTCCGCGCCAACTGCAGAGCA 466

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D 595 CTGGCTCAGGACCTGACAGTACCAACCCATGCTGGTGTATTAATTTGATCATCAAG 654
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D 715 TGGGGCTCAGGCTGAAGAGATCAATCCCTTTGAGGCAACAAAGTGGTGTGAATATTC 774
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D 708 TGGCACTCAGACTAAAGAAAGACAATCTCTTGAGGAGATGAAGGGAATGCAAAATATTC 767
D 709 TGGCACTCAGACTAAAGAAAGACAATCTCTTGAGGAGATGAAGGGAATGCAAAATATTC 768
QY 774 ACAGACCTCTAGAAAGTCACTACCAAGATGCTGTTGCTTGGTCTCTGCTTTGCTCA 833
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QY 894 AGTCCCTGGCTGTGTTTCAACCTCATCCATGCTGATGCTGCTCTCTTTTATCTGA 953
D 895 AGTCCCTGGCTGTGTTTCAACCTCATCCATGCTGATGCTGCTCTCTTTTATCTGA 954
D 896 AGTCCCTGGCTGTGTTTCAACCTCATCCATGCTGATGCTGCTCTCTTTTATCTGA 955
QY 887 AATCCCTGGCTGTGTTTCAACCTCATCCATGCTGATGCTGCTCTCTTTTATCTGA 946
D 888 AATCCCTGGCTGTGTTTCAACCTCATCCATGCTGATGCTGCTCTCTTTTATCTGA 947
D 889 AATCCCTGGCTGTGTTTCAACCTCATCCATGCTGATGCTGCTCTCTTTTATCTGA 948
QY 954 GCTCGGGGTCAACCCCATATCTATAACCTCTCTGCTGCTGCTGCTGCTGCTGCTGCT 1013
D 955 GCTCGGGGTCAACCCCATATCTATAACCTCTCTGCTGCTGCTGCTGCTGCTGCTGCT 1014
D 956 GCTCGGGGTCAACCCCATATCTATAACCTCTCTGCTGCTGCTGCTGCTGCTGCTGCT 1015
QY 947 GCTCAGCTGTCAACCCCATATCTATAACCTCTCTGCTGCTGCTGCTGCTGCTGCTGCT 1006
D 948 GCTCAGCTGTCAACCCCATATCTATAACCTCTCTGCTGCTGCTGCTGCTGCTGCTGCT 1007
D 949 GCTCAGCTGTCAACCCCATATCTATAACCTCTCTGCTGCTGCTGCTGCTGCTGCTGCT 1008
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D 1015 GAAATGTTGCTCCCTTACCTGCAAAATGGTGCCATCCCGGCTGCGGCACAGGAGCTC 1074
D 1016 GAAATGTTGCTCCCTTACCTGCAAAATGGTGCCATCCCGGCTGCGGCACAGGAGCTC 1075
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D 1009 AGATGTGATCTTCTTCCACAACAGTGGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1068
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D 1075 CAGCCCAAGAGATCATCTTCTTGACAGATGTCAACCTGCTGCTGCTGCTGCTGCTGCT 1134
D 1076 CAGCCCAAGAGATCATCTTCTTGACAGATGTCAACCTGCTGCTGCTGCTGCTGCTGCT 1135
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D 1069 CTGCCCCAGGAAACATCTTCTGACAGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1128
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D 1135 GCCCCAGTTCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1194
D 1136 GCCCCAGTTCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1195
QY 1127 GTCCCCAATTCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1186
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QY 1194 CAGGAGAGTACCAATAA 1211
D 1195 CAGGAGAGTACCAATAA 1212
D 1196 CAGGAGAGTACCAATAA 1213
QY 1187 GTGAACAGATGTCAGAA 1204
D 1188 GTGAACAGATGTCAGAA 1205
D 1189 GTGAACAGATGTCAGAA 1206
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## RESULT 3

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us-09-782-974C-17/c
; Sequence 17, Application us/09782974C
; Publication No. US20030082534A1
; GENERAL INFORMATION:
; APPLICANT: Vogel, Gabriel
; APPLICANT: Lind, Peter
; APPLICANT: Wood, Linda S.
; APPLICANT: Parodi, Luis A.
; TITLE OF INVENTION: No. US20030082534A1 G Protein Coupled Receptor
; FILE REFERENCE: 411USPHR311
; CURRENT APPLICATION NUMBER: US/09782, 974C
; CURRENT FILING DATE: 2002-09-04
; PRIOR APPLICATION NUMBER: 60/165,838
; PRIOR FILING DATE: 1999-11-16
; PRIOR APPLICATION NUMBER: 09/714,449
; PRIOR FILING DATE: 2000-11-16
; PRIOR APPLICATION NUMBER: 60/198,568
; PRIOR FILING DATE: 2000-04-20
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; PRIOR APPLICATION NUMBER: 60/166,071
; PRIOR FILING DATE: 1999-11-17
; PRIOR APPLICATION NUMBER: 60/166,678
; PRIOR FILING DATE: 1999-11-19
; PRIOR APPLICATION NUMBER: 60/173,396
; PRIOR FILING DATE: 1999-12-28
; PRIOR APPLICATION NUMBER: 60/184,129
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: 60/185,421
; PRIOR FILING DATE: 2000-02-28
; PRIOR APPLICATION NUMBER: 60/185,554
; PRIOR FILING DATE: 2000-02-28
; PRIOR APPLICATION NUMBER: 60/186,530
; PRIOR FILING DATE: 2000-03-02
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 192
; SOFTWARE: Patent in version 3.1
; SEQ ID NO 17
; LENGTH: 801
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-09-782-974C-17
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Query Match 38.4%; Score 472.6; DB 11; Length 801;
Best Local Similarity 79.5%; Pred. No. 1.4e-143;
Matches 578; Conservative 0; Mismatches 134; Indels 15; Gaps 1;
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QY 17 TCAGTAATGGGAAACCTTGAATAATGCTCTCTGGATCCAC-----GATCCT 61
D 801 TCAGGATGGAATAATTCAGAAATGCTCTCTGGATCTACACGAGAAACTAGAAATCCA 742
QY 62 CTCATGAAGTACTTGAACACGACAGAGAGTACTTGGCCACCTGTGGACCAAGCGC 121
D 741 TTCAGAAACACCTTGAACAGACGAGAGTACTTGGCCCTTCTCTGGACCTTCGGCGC 682
QY 122 AGTGACCTATCCCTTCCGGTCTCTGTGGCTTCTGCGCTGATCTTCTCTGGTGGGTAAATG 181
D 681 AGCCACCTTCTCTCCCGCTGCTGTGTGTATGTGCAATTTTGTGGTGGGTCAAT 622
QY 182 GGCAATCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 241
D 621 GGCAATCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 562
QY 242 TACTATCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 301
D 561 TACTATCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 502
QY 302 GAAATCTACGAGATGTGGCACAATTAACCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 361
D 501 GAGGTCTATGAGATGTGGCACAATTAACCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 442
QY 362 AAGACAGCCCTCTTCGAGACTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 421
D 441 AAGACAGCCCTCTTCGAGACTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 382
QY 422 GTAGAGCGCTATGTGGCCATTTGCCACCTTTCGAGCGCAAGCTTGGAGAGCAGCGCGCA 481
D 381 GTGAGCGCTATGTGGCCATTTGCCACCTTTCGAGCGCAAGCTTGGAGAGCAGCGCGCGC 322
QY 482 CGGGCCCTCAGGATCTCTCAGCTAGTCTGGAGCTTCTCTGCTGCTGCTGCTGCTGCTGCT 541
D 321 CGGGCCCTCAGGATCTCTCAGCTAGTCTGGAGCTTCTCTGCTGCTGCTGCTGCTGCTGCT 262
QY 542 ACCAGATCATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 601
D 261 ACCAGATCATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 202
QY 602 GCCACCTGCAGCTGACCAACCCATGCTGGGTGTATTAATTTGATCATCCAGCTACACAGC 661
D 201 GCCACCTGCAGCTGACCAACCCATGCTGGGTGTATTAATTTGATCATCCAGCTACACAGC 142
QY 662 TTCTCTTCTACATCTCTCCCAATGACCTCATCATGAGCTGCTCTACTACTACTACTACTACT 721
D 142 TTCTCTTCTACATCTCTCCCAATGACCTCATCATGAGCTGCTCTACTACTACTACTACTACT 721
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Db 141 TTCTATTACCTCTCCCATGACTGTGTCATGAGTGTCTCTACTACCTCATGCGACTC 82  
QY 722 AGGCTGA 728  
Db 81 AGAGTGA 75  
RESULT 4  
US-10-083-168-13  
; Sequence 13, Application US/10083168  
; Publication No. US20030023069A1  
; GENERAL INFORMATION:  
; APPLICANT: Liaw, Chen W.  
; APPLICANT: Chalmers, Derek T.  
; APPLICANT: Behan, Dominic P.  
; APPLICANT: Maciejewski-Lenior, Dominique  
; APPLICANT: Leonard, James N.  
; APPLICANT: Ortuno, Daniel  
; APPLICANT: Lin, I-Lin  
; TITLE OF INVENTION: Endogenous And No. US20030023069A1-Endogenous, Constitutively Act  
; FILE REFERENCE: AREN-0320  
; CURRENT APPLICATION NUMBER: US/10/083,168  
; CURRENT FILING DATE: 2002-02-26  
; NUMBER OF SEQ ID NOS: 102  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 13  
; LENGTH: 1212  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-10-083-168-13

Query Match 26.9%; Score 330.6; DB 14; Length 1212;  
Best Local Similarity 61.4%; Pred. No. 4.3e-97;  
Matches 590; Conservative 0; Mismatches 329; Indels 42; Gaps 2;  
QY 110 GGACCAAGCGCAGTACCTATCCCTTCGGGTGCTGTGGCCCTATGCGCTGATGATTCCTG 169  
Db 88 GGGCCCGCAGCAGACAGCTGTTCATGCCCATCTGTGCCACATACCTGCTGATCTTCGTG 147  
QY 170 GTGGGGTAATGGCAATCTTCTGGTGTGTCATGGTGTATGTCGACATCAGACTTTGAAG 229  
Db 148 GTGGGGCTGTGGGCAATGGGCTGACCTGTCTGGTGTATCTGCGCCACCAAGGCGCATGCGC 207  
QY 230 ACACCCCAAGCTAGAGGCTATGTGGCCATTTCCAGCCCTTTCGGAGCCCAAGCTGGAG 469  
Db 388 ACTGCCCTGAGCGTGAACGCTATGTGGCGGTGTCACCCACTCCAGGCCAGGTCCATG 447  
QY 470 AGCAGCGGGGAGCGGCCCTCAGGATTCCTCAGGCTATGCTGGAGCTTCTCTGTGGTCTTT 529  
Db 448 GTGACGCGGGCCCATGTGGCGCGAGTGTCTGGGGCGTCTGGGGTCTTGCCATGCTCTGC 507  
QY 530 TCTTTTCCCAATACCAGATCCATGCCATCAAGTTCACAGACTTTTCCCAACGGTCTCTCC 589  
Db 508 TCCCTGCCCAACACGACCTGACGGCATCCGGAGCTGCACGCTGCGCGGGGCCCA 567  
QY 590 GTACCTGGCTAGCCACCTGCACAGTCACCAACCCCATGTGGGTGTATTAACCTTGATCATC 649  
Db 568 GTGCCAGACTAGCTGTTTGCATGTGCTCCGCCACCGGCCCTCTACACATGCTAGTG 627  
QY 650 CAAAGTACCAGCTTCCTCTTCTACATCTCCCAATGACCCCTCATACAGCTCTCTACTAC 709

Db 628 CAGACACCGCGCTGCTCTTCTTCTGCTGCCATGCCATCATGAGCGTGTCTACTCTG 687  
QY 710 CTCATGGGCTCAGGCTGAAGAGATGA-----ATCCCTTGAGGCGAACAAGT 759  
Db 688 CTCATTGGGCTGCGACTGCGGGGGAGAGGCTGCTGCTCATGCGAGGCGCAAGGCGAGG 747  
QY 760 GGCTGTGAATATTACAGACACCTCTAGAAAGTCACTC----- 796  
Db 748 GGCTCTGACGACGCGGTCAGATACACCTGAGGCTCCAGCAGCAGCATCGGGGCGCG 807  
QY 797 -----ACCAAGATGCTGTTGCTTGGTCTCGTGTGGCCATCTGCTGAGACCC 847  
Db 808 AGACAAAGTGACCAAGATGCTGTTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 867  
QY 848 TTCCATGTGGACCGGCTCTCTTCAGCTTTTGGAGAGTGGACAGTCCCTGGCTGCT 907  
Db 868 TTCCACGCGGCGCGCTCATGTGGAGCGCTGTACAGTGGGACAGATGGCCCTGCACCTG 927  
QY 908 GTGTTCAACCTCATCCATGTGGTATCAGTGTCTTCTTTTATCTGAGCTCCGCGGTCAAC 967  
Db 928 GCCTTCCAGCAGCTGCACGTCATCTCGGCGATCTTCTTCTACCTGGGCTCGGCGGCAAC 987  
QY 968 CCATTATCTATAACCTCTCTCGGCGTTCGCGGCGCTTCGAGAAATGTTGTCTCC 1027  
Db 988 CCGTGTCTATAGCCTCATGTCCAGCGCTTCCGAGAGACCTTCCAGGAGGCGCTGTGC 1047  
QY 1028 C 1028  
Db 1048 C 1048

RESULT 5  
US-10-251-385-113  
; Sequence 113, Application US/10251385  
; Publication No. US20030105292A1  
; GENERAL INFORMATION:  
; APPLICANT: Behan, Dominic P.  
; APPLICANT: Chalmers, Derek T.  
; APPLICANT: Liaw, Chen W.  
; TITLE OF INVENTION: No. US20030105292A1-Endogenous, Constitutively Activated Human  
; TITLE OF INVENTION: Protein-Coupled  
; FILE REFERENCE: AREN-0040  
; CURRENT APPLICATION NUMBER: US/10/251,385  
; CURRENT FILING DATE: 2002-09-20  
; PRIOR APPLICATION NUMBER: US/09/170,496  
; PRIOR FILING DATE: 1998-10-13  
; NUMBER OF SEQ ID NOS: 294  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 113  
; LENGTH: 1212  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-10-251-385-113

Query Match 26.9%; Score 330.6; DB 14; Length 1212;  
Best Local Similarity 61.4%; Pred. No. 4.3e-97;  
Matches 590; Conservative 0; Mismatches 329; Indels 42; Gaps 2;  
QY 110 GGACCAAGCGCAGTACCTATCCCTTCGGGTGCTGTGGCCCTATGCGCTGATGATTCCTG 169  
Db 88 GGGCCCGCAGCAGACAGCTGTTCATGCCCATCTGTGCCACATACCTGCTGATCTTCGTG 147  
QY 170 GTGGGGTAATGGCAATCTTCTGGTGTGTCATGGTGTATGTCGACATCAGACTTTGAAG 229  
Db 148 GTGGGGCTGTGGGCAATGGGCTGACCTGTCTGGTGTATCTGCGCCACCAAGGCGCATGCGC 207  
QY 230 ACACCCCAAGCTAGAGGCTATGTGGCCATTTCCAGCCCTTTCGGAGCCCAAGCTGGAG 289  
Db 208 AGCCTACCAACTACTACTACCTCTTCAGCTGCGCGTGTGCGACCTGCTGCTGCTGCTGCTG 267  
QY 290 GGGATGCCCTCTGGAATCTACGAGATGTGGCACAATTAACCTTTCTCTGTTTCGGGCGCTG 349



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Qy 350 GGATGCTACTTCAAGACAGCCCTCTTCAGAGACTGTGCTTGGCTCATCTCAGTGTC 409
Db 328 GGCCTGCTATTTCCGACACCTACTGTTGAGATGGTCTGGCTGGCTCAGTCTCAACCTC 387
Qy 410 ACCAGGTTAGCTAGAGCGTATGTGGCCATTTGCCACCTTTCCAGCCCTTCCGAGCCAAAGCTGGAG 469
Db 388 ACTGCCCTGAGGCTGGACGCTATGTGGCCGTGGTGGCCAGTCCAGCCACTCCAGGCCAGGTCCATG 447
Qy 470 AGCAGCGGCGACGGGCGCTCAGGATCCTCAGGCTCAGCTAGTGTGAGGCTTCTGTGCTGCTTT 529
Db 448 GTGACGGGGGCCATGTGCGCGAGTGTGTTGGGCGGCTGCTGGGCTTCTGGCCATGCTCTGC 507
Qy 530 TCTTTGCCCAATACCAGCATCCATGGCATCAAGTTCCAGCACTTTCACAAAGGGTCTCTCC 589
Db 508 TCCCTGCCCAACACAGCTCAGCGCTCAGCGCATCGGCGAGCTGCAGCTGCCCTGCGGGGGCCCA 567
Qy 590 GTACCTGCTCAGCCACCTGCACAGTCAACAAACCCATGTGGGTGTATAACTTTGATCATC 649
Db 568 GTGCCAGACTCAGCTGTTTGCATGCTGTGCTCGCCACGGGCCCTCTACAAACATGTTAGTG 627
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RESULT 6

US-10-225-567A-539  
; Sequence 539, Application US/10225567A  
; Publication No. US20030113798A1  
; GENERAL INFORMATION:  
; APPLICANT: LifeSpan Biosciences  
; APPLICANT: Brown, Joseph P.  
; APPLICANT: Burmer, Glenna C.  
; APPLICANT: Roush, Christine L.  
; TITLE OF INVENTION: ANTIGENIC PEPTIDES AND ANTIBODIES FOR G PROTEIN-COUPLED RECEPTORS  
; FILE REFERENCE: 1920-4-4  
; CURRENT APPLICATION NUMBER: US/10/225,567A  
; PRIOR FILING DATE: 2001-12-19  
; PRIOR APPLICATION NUMBER: 60/257,144  
; PRIOR FILING DATE: 2000-12-19  
; NUMBER OF SEQ ID NOS: 2292  
; SOFTWARE: PatentIn version 3.1

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; SEQ ID NO 539
; LENGTH: 1212
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-225-567A-539

Query Match      26.9%; Score 330.6; DB 14; Length 1212;
Best Local Similarity 61.4%; Pred. No. 4,3e-97;
Matches 590; Conservative 0; Mismatches 329; Indels 42; Gaps 2;

Qy 110 GGACCCAAAGCAGTGAACCTATCCCTTCCGGTGTCTGTGGCTATGCGCTGATCTCTCTG 169
Db 88 GGGCCCCAGCAGACAGAGCTGTTCATGCCCATCTGTGCCACATCTGCTGATCTCTGCTG 147
Qy 170 GTGGGGTAAATGGGCAATCTTCTGTGTGCATGTGATTGTCCGACATCAGACATTTGAAG 229
Db 148 GTGGCGCTGTGGCAATGGGCTGACCTGTCTGGTTCATCTCGGCCACAAGGCCATGGCG 207
Qy 230 ACACCCCAACTACTATCTCTTTCAGCTTGGCAGTCTCAGATCTCTGCTGTCTCTCTCTG 289
Db 208 ACGCTACCAACTACTACTCTCTCAGCCTGGCCGTGCGACCTGCTGTGCTGTCTGCTG 267
Qy 290 GGGATGCTCTGGAAATCTACAGATGTGGCACAATTAACCTTTCTCTGTTGGGGCTGTG 349
Db 268 GGCCTGCCCTTGGAGCTCTATGAGATGTGGCAACATACCCCTTCTCTGCTGGCGTTGGT 327
Qy 350 GGATGCTACTTCAAGACAGCCCTCTTCGAGACTGTGTGCTTGTGCTTCCATCTCTCAGTCTC 409
Db 328 GGCTGCTATTTCCGACAGCTACTGTTTGAGATGGTCTGCCCTGAGCTCAGTCTCAACGTC 387
Qy 410 ACCACGGTTAGCTAGAGCGCTATGTGGCCATTTGTCCACCTTTTCCGAGCCAAAGTGGAG 469
Db 388 ACTGCCCTGAGCGTGGAAAGCTATGTGGCCGTGGTGGCAGCCACATCCAGGCCAGGTCCATG 447
Qy 470 AGCAGCGGCGACGGGCGCTCAGGATCCTCAGCCTAGTGTCTGAGGCTTCTCTGTGCTCTTT 529
Db 448 GTGACGGGGGCCATGTGCGCCGAGTGTCTGGGCGGCTTGGCCATGCTCTGCTG 507
Qy 530 TCTTTGCCCAATACCAGCATCCATGGCATCAAGTTCCAGCACTTTCACAAAGGGTCTCTCC 589
Db 508 TCCCTGCCCAACACAGCTGCAGGCTCGCGCATCGGAGCTGCAGTGCCTTGGCGGGGCCCA 567
Qy 590 GTACCTGCTCAGCCACCTGCACAGTCAACAAACCCATGTGGGTGTATAACTTTGATCATC 649
Db 568 GTGCCAGACTCAGCTGTTTGCATGCTGTGCTCGCCACGGCCCTCTACAAACATGTTAGTG 627
Qy 650 CAAGCTACCACTTCTCTTCTATCATCTCCCAATGACCCCTCAGGCTCCTCTACTATAC 709
Db 628 CAGACCACCGGCTGCTCTTCTGCTGCTGCCATGGCCATCATGAGCGTCTCTTACCTG 687
Qy 710 CTCATGGGCTCAGGCTGAAGAGATGA-----ATCCCTTGAGGCGAACAAGT 759
Db 688 CTCATGGGCTGCGACTGCGGGAGAGGCTGTGCTCATGCGAGGCGCAAGGGCAGG 747
Qy 760 GGCTGTGAATATTCACAGACCTCTAGAAAGTCAGTC----- 796
Db 748 GGCTGTGAGCGAGCCAGGTCCAGATACACCTGCGAGGCTCCAGCAGCAGATCGGGGCGG 807
Qy 797 -----ACCAAGATGCTGTTGTGCTTGGTCTCTGCTTGGCTCATCTGCTGCTGCTGCT 907
Db 808 AGACAAGTGACCAAGATGCTGTTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 867
Qy 848 TTCCATGGGCTCAGGCTGAAGAGATGA-----ATCCCTTGAGGCGAACAAGT 907
Db 868 TTCCACGGCAGCCGCTCATGTGAGCGTCTGTGTCACAGTGCAGAGATGGGCTTGACCTG 927
Qy 908 GTGTTCAACCTATCCATGCTGATCAGGCTCTTCTTTTATCTGAGCTCCGCGTCAAC 967
Db 928 GCCTTCCAGCAGTGCAGTCTATCCGGCATCTTCTTCTACCTGGGCTCGCGGCCAAC 987
Qy 968 CCCATTATATACCTCTCTGCTGGGCTTCCGGGGCGCTTTCCGAAATGTTGTCTCC 1027
Db 988 CCCGTGCTATAGCCTCATGTCAGCGGCTTCCGAGAGACCTTCCAGGAGGCGCTCTGTC 1047
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Qy	410	ACCACGGTTAGCGTATGTGGCCATTTGTCACCCTTTCCGAGGCCAAGCTGGAG	469
Db	388	ACTGCCCTGAGCGTGAACGCTATGTGGCCGTGGTGACCACTTCCAGGCGAGGTCCATG	447
Qy	470	AGCACGGGGACGGGGCCCTCAGGATCCTCAGCCTAGCTGTGGAGCTTCTCTGTGTGCTTTT	529
Db	448	GTGACGGGGCCCATGTGCGCCGAGTGCTTTGGGGCCGCTTGGGCTTGTGCCATGCTCTGC	507
Qy	530	TCTTTGGCCCAATACCAAGCATCCATGGGATCAAGTTTCCAGCACTTTCCCAACGGGTCTCC	589
Db	508	TCCTTGCCCAACACACAGCCCTGCACGGGATCCGGCAGCTGCACGTGCCCTGCCGGGGCCCA	567
Qy	590	GTACCTGGCTCAGCCACCTGCACAGTCACCAAAACCCATGTGGTGTAATAACTTGCATCATC	649
Db	568	GTGCCAGACTCAGCTGTTTGCATGTGGTTCGCCACGGGCCCTCTACAACATGGTAGTG	627
Qy	650	CAAGCTACCAAGCTTCCTTTCTACATCCTCCCAATGACCTCATCAGCGTCTCTACTAC	709
Db	628	CAGACCACCGGCTGCTCTTCTTGCTGCCATGGCCATCATGACGCTGCTCTACCTG	687
Qy	710	CTCATGGGCTCAGGCTGAAGAGAGATGA-----ATCCCTTGAGGCGACAAGT	759
Db	688	CTCATGGGCTGCAGCTGCGCGGGAGAGGCTGCTGCTCATGAGGAGGCCAAGGGCAGG	747
Qy	760	GGCTGTGAATATTACAGACGCCCTCTAGAAAGTCAGTC-----	796
Db	748	GGCTCTGCAGCAGCAGGTCACAGATACACCTGCAGGCTCCAGCAGCACGATCGGGCGCG	807
Qy	797	-----ACCAAGATGCTGTGTGCTTGGTGCTGCTGTGGCATCTGCTGGAGACCC	847
Db	808	AGACAAGTGACCAAGATGCTTTGTGCTCGTGGTGTTGGCATCTGCTGGGGCCCG	867
Qy	848	TTCCATGTGACCGGCTCTTCTCAGCTTTGTGGAAGAGTGGACAGAGTCCCTGGCTGCT	907
Db	868	TTCCACCCGACCGCGTCATGTGGAGCGTGTGTACAGTGGACAGATGGCTTGCACCTG	927
Qy	908	GTGTTCAACCTCATCCATGTGGTATCAGGTGCTTCTTTTATCTGAGCTCCGGGTCAAC	967
Db	928	GCCTTCAGACAGCTGCACGTATCTCCGGCATCTTCTTCACTGGGCTCGGGGCCAAC	987
Qy	968	CCATTTATCTAATACCTCCCTGCTCGCGGCTTCGGGCGGCCCTTCCAAATGTTGTCTCC	1027
Db	988	CCGCTGCTCTATAGCCCTCATGTCCAGCGGCTTCCGAGAGACCTTCCAGGAGGCCCTGTG	1047
Qy	1028	c 1028	
Db	1048	c 1048	

## RESULT 9

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US-10-146-419-12
; Sequence 12, Application US/10146419
; Publication No. US20030087370A1
; GENERAL INFORMATION:
; APPLICANT: Tang, Y. Tom
; APPLICANT: Liu, Chenghua
; APPLICANT: Zhang, Jie
; APPLICANT: Drmanac, Radoje T.
; TITLE OF INVENTION: No. US20030087370A1el Nucleic Acids and
; TITLE OF INVENTION: Polypeptides
; FILE REFERENCE: 790CIP2ADIVI
; CURRENT APPLICATION NUMBER: US/10/146,419
; CURRENT FILING DATE: 2002-05-15
; PRIOR APPLICATION NUMBER: 09/668,680
; PRIOR FILING DATE: 2000-09-22
; PRIOR APPLICATION NUMBER: 09/649,167
; PRIOR FILING DATE: 2000-08-23
; PRIOR APPLICATION NUMBER: 09/540,217
; PRIOR FILING DATE: 2000-03-31
; NUMBER OF SEQ ID NOS: 13
; SOFTWARE: pt_FL_genes version 2.0
; SEQ ID NO 12
; LENGTH: 1535

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: TYPE: DNA
: ORGANISM: Homo sapiens
: FEATURE:
: NAME/KEY: CDS
: LOCATION: (1)..(1338)
US-10-146-419-12

Query Match          26.9%; Score 330.6; DB 14; Length 1535;
Best Local Similarity 61.4%; Pred. No. 4.8e-97;
Matches 590; Conservative 0; Mismatches 329; Indels 42; Gaps 2;

QY 110 GGACCCAAAGCGCAGTGACCTATCCCTCCCGGTGCTGTGGCCTATGCGCTGATGCTTCCTG 169
Db 110 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 214 GGGCCCCAGCAGACAGAGCTGTTTCATGCCCATCTGTCCACATACCTGCTGATCTTCGTG 273
Db 214 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 170 GTGGGGTAAATGGGCAATCTTCTGGTGTGATGTGTCGGACATCAGACTTTGAAG 229
Db 170 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 274 GTGGGCGCTGTGGCAATGGCTGACCTGCTGTGTCATCTGCCACAGGCCATGCGC 333
Db 274 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 230 ACACCCACCACACTACTATCTTTCAGCTTGGCAGTCTCAGATCTGCTGTGCTCTTG 289
Db 230 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 334 ACGCCTACCAACTACTACCTCTTCAGCCTGGCCGTGTCGACCTGCTGGTGTCTGGTG 393
Db 334 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 290 GGGATGCTCTGGAAATCTACGAGATGTGCACAATTACCCTTTCCCTGTTTCGGGCGTGTG 349
Db 290 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 394 GGCCTGCCCTGGAGCTCTATGAGATGTGCACAACCTACCCTCTCTGCTGGGCGTTGGT 453
Db 394 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 350 GGATGCTACTTTAAGACAGAGCCCTCTTCGAGACTGTGTGCTTTGGCTCCATCTCAGTGTG 409
Db 350 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 454 GGCTGCTATTTCCGACGCTACTGTTTGGATGGTCTGCTGCCCTCAGTGTCTCAAGTCTC 513
Db 454 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 410 ACCACGGTTTAGCGTAGCGCTATGTGGCCATTTGTCCACCCCTTTCCGAGGCCAAGCTGGAG 469
Db 410 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 514 ACTGCCCTGAGCGTGGAACGCTATGTGGCCGTGTGTGACCACTCCAGGCCAGGTCCCATG 573
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QY 470 AGCAGCGGCGCAGGGGCCCTCAGGATCCTCAGCCTAGTCTGGAGCTTCTCTGTGGTCTTTT 529
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Db 530 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 634 TCCCTGCCCAACACACGCTGCACGGGATCCGGCAGCTGCACGTGCCCTCGCGGGGCCCA 693
Db 634 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 590 GTACCTTGGCTCAGCCACTGCACAGTCCACAAACCATGTGGGTGTATAAATGTATCATC 649
Db 590 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 694 GTGCCAGACTCAGCTGTTTGATCTGCTGCCGACGGGCCCTCTACAACATGGTAGTG 753
Db 694 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 650 CAAGCTACAGCTTCTCTTCTACATCCTCCCAATGACCCCTCATCAGCTCTCTACTATC 709
Db 650 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 754 CAGACCAACCGCGCTGCTCTTCTTGCTGCTGCCATGGCCATCATGACGTGCTCTACCTG 813
Db 754 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 710 CTCATGGGCTCAGGCTGAAGAGATGA-----ATCCCTTGAGGCGGAACAAGT 759
Db 710 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 814 CTCATTGGGCTGGCACTGCGCGGGAGAGGCTGCTGCTCATGCAAGGCCAAGGGCAGG 873
Db 814 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 760 GCGTGTGAATATTACAGACCCCTCTAGAAATCAGTC----- 796
Db 760 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 874 GGCTCTCCAGCAGCCAGGTCAGATACACCTGCAGGCTCCAGCAGCAGCATCGGGGCCGG 933
Db 874 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 797 -----ACCAAGATGCTTTTGTCTTGTCTCGTCTGTGTTGCCATCTGCTGACCCCC 847
Db 797 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 934 AGACAAGTGACCAAGATGCTTTTGTCTGCTGTGTGTTTGGCATCTCTGGGCCCG 993
Db 934 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 848 TTCATGTGGACCGGCTCTTCTTCAGCTTTGTGGAGAGTGGACAGAGTCCCTGGCTGCT 907
Db 848 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 994 TTCCACGCCACCGCGTCATGTGGAGGCTGCTGTCACAGTGGACAGATGGCCTGACCTG 1053
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QY 908 GTGTTTCAACCTCATCCATGTGGTATCAGGTGCTTCTTTTATCTGAGCTCCGCGGTCAAC 967
Db 908 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 1054 GCCTTCAGCAGCTGCACAGTCATCTCCGGCATCTTCTTCTACCTTGGGCTCGGGGCCAAC 1113
Db 1054 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 968 CCCATTATCATAACTCTCTCTCGCGGCTTCCGGCGGCGCTTTCGAAATGTTGTCTCC 1027
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Db 1114 CCGTGCTCTATAGCCTCATGTCCAGCGCTTCCGAGAGACCTTCCAGGAGGCCCTGTGC 1173  
QY 1028 C 1028  
Db 1174 C 1174

RESULT 10  
US-10-146-123-12  
; Sequence 12, Application US/10146123  
; Publication No. US20030092112A1  
; GENERAL INFORMATION:  
; APPLICANT: Tang, Y. Tom  
; APPLICANT: Liu, Chenghua  
; APPLICANT: Zhang, Jie  
; APPLICANT: Drmanac, Radoje T.  
; TITLE OF INVENTION: No. US20030092112A1el Nucleic Acids and  
; TITLE OF INVENTION: Polypeptides  
; FILE REFERENCE: 790CIP2ADIV2  
; CURRENT APPLICATION NUMBER: US/10/146,123  
; CURRENT FILING DATE: 2002-05-15  
; PRIOR APPLICATION NUMBER: 09/668,680  
; PRIOR FILING DATE: 2000-09-22  
; PRIOR APPLICATION NUMBER: 09/649,167  
; PRIOR FILING DATE: 2000-08-23  
; PRIOR APPLICATION NUMBER: 09/540,217  
; PRIOR FILING DATE: 2000-03-31  
; NUMBER OF SEQ ID NOS: 13  
; SOFTWARE: pt\_FL\_genes Version 2.0  
; SEQ ID NO 12  
; LENGTH: 1535  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: (1)..(1338)  
US-10-146-123-12

Query Match 26.9%; Score 330.6; DB 14; Length 1535;  
Best Local Similarity 61.4%; Pred. No. 4.8e-97;  
Matches 590; Conservative 0; Mismatches 329; Indels 42; Gaps 2;

QY 110 GGACCCAGCGAGTACCTATCCCTTCGGGTCTGTGGCGCTATGCGCTGATCTTCG 169  
DB 214 GGGCCCCAGCAGACAGCTGTTCATGCGCCATCTGTGCCACATACCTGCTGATCTCGTG 273  
QY 170 GTGGGGTAATGGCAATCTCTGTGTGCATGGTGATTTCCGACATCAGACTTTGAAG 229  
DB 274 GTGGGCGCTGTGGGCAATGGGCTGACCTGTCTGGTATCCTGGCCACAAAGGCCATGGCG 333  
QY 230 ACACCCACCACTACTATCTCTTCAGCTTGGCAGTCTCAGATCTGTGGTCTGCTCTTG 289  
DB 334 ACGCTTACCACTACTACCTTTCAGCTGGCGGTGTGGACCTGCTGGTGTGCTGGTG 393  
QY 290 GGGATGCTCTGGAATCTACGAGATGGGCAATATACCTTTCCTGTTCGGGCGCTGTG 349  
DB 394 GGCCTGCCCTGGAGCTCTATGAGATGTGGCAACTACCCCTTCTGCTGGGCGCTTGGT 453  
QY 350 GGATGCTACTTCAAGACAGCCCTCTTCGAGACTGTGTGCTTTGGCTTCCATTTCTCAGTGTC 409  
DB 454 GGCTGTATTTCCGACCGTACTGTTTGAGATGGTGTCTGCTGGCTCAGTGTCAACGTC 513  
QY 410 ACCAGCGTTAGGTAGAGCGCTATGTGGCCATTTGCCACCTTTCCGAGCCAAAGCTGGAG 469  
DB 514 ACTGCCCTGAGCTGGAAGCTATGTGGCGGTGTGGCCACTCCAGGCCAGGTCCATG 573  
QY 470 AGCAGCGCGGAGGGCCCTCAGGATCTCAGCCCTAGTCTGAGCTTCTGTGTGCTTT 529  
DB 574 GTGACGCGGGCCCATGTGGCGGAGTGTGTGGGCGCTGTGGGCGCTTGGCCATGCTCTGC 633  
QY 530 TCTTTGCCCAATACAGACATCATGCAATCAAGTTCACGACCTTTCCCAACGGGTCCCTC 589  
DB 634 TCCCTGCCCAACACCAAGCCTGACGGCATCCGGCAGCTGCACGTGCGCTTGGCGGGGCCCA 693

QY 590 GTACCTGGCTCAGCCACCTGCACAGTCCACCAACCCATGTGGGTGTATACTTGTATCATC 649  
DB 694 GTGCCAGACTAGCTGTTTGCATGTGTCGCCGCCACGGGCCCTCTACAAACATGGTAGTG 753  
QY 650 CAAGCTACCAAGCTTCTCTTACATCTCCCAATGACCTCATCAGCGTCTCTACTATAC 709  
DB 754 CAGACCACCGCGCTGCTCTTCTTGCCTGCCCATGGCCATCATGAGCTGCTCTACCTG 813  
QY 710 CTCATGGGCTCAGGCTGAAGAGATGA-----ATCCCTGAGGCGGACAAAGT 759  
DB 814 CTCATTGGGCTGCGACTGCGCGGGAGAGGCTGCTGCTCATCGAGGAGGCCAAGGCGAG 873  
QY 760 GGCTGTGAATATTACAGACCCCTCTAGAAAGTCAGTC----- 796  
DB 874 GGCTCTGCAGCAGCCAGGTCCAGATACACCTGCAGGCTCCAGCAGCACCATCGGGCGCG 933  
QY 797 -----ACCAAGATGCTGTTGTCCTGTCCTGTTGGTCTGTTGGCCATCTGCTGGACCCC 847  
DB 934 AGACAAGTGCACCAAGATGCTGTTGTCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 993  
QY 848 TTCCATGTGGACGGCTCTCTTCAGCTTTGTGGAAGAGTGGACAGAGTCCCTGGCTGCT 907  
DB 994 TTCCAGCGCGCGGCTCATGTGGAGCGTGTGTCACAGTGGACAGATGGCCTGCACTG 1053  
QY 908 GTGTTCAACCTCATCCATGTGCTATCAGGTGCTCTTTTATCTGAGCTCCGCGGTCAAC 957  
DB 1054 GCCTTCCAGCAGCTGCACGCTCATCTCCGCGCATCTCTTCTACCTGGGCTCGGGCGCAAC 1113  
QY 968 CCCATTATCTAATACCTCTCTGCTGCTGGCGCTTCCGGGCGGCTTTCCGAAATGTTGCTCC 1027  
DB 1114 CCGGTGCTCTATAGCCTCATGTCCAGCGCTTCCGAGAGACCTTCCAGGAGGCCCTGTGC 1173  
QY 1028 C 1028  
DB 1174 C 1174

RESULT 11  
US-10-083-168-82  
; Sequence 82, Application US/10083168  
; Publication No. US20030023069A1  
; GENERAL INFORMATION:  
; APPLICANT: Liaw, Chen W.  
; APPLICANT: Chalmers, Derek T.  
; APPLICANT: Behan, Dominic P.  
; APPLICANT: Maciejewski-Lenior, Dominique  
; APPLICANT: Leonard, James N.  
; APPLICANT: Ortuno, Daniel  
; APPLICANT: Lin, I-Lin  
; TITLE OF INVENTION: Endogenous And No. US20030023069A1-Endogenous, Constitutively  
; FILE REFERENCE: AREN-0320  
; CURRENT APPLICATION NUMBER: US/10/083,168  
; CURRENT FILING DATE: 2002-02-26  
; NUMBER OF SEQ ID NOS: 102  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 82  
; LENGTH: 1212  
; TYPE: DNA  
; ORGANISM: Unknown  
; FEATURE:  
; OTHER INFORMATION: No. US20030023069A1el Sequence  
US-10-083-168-82

Query Match 26.7%; Score 329; DB 14; Length 1212;  
Best Local Similarity 61.3%; Pred. No. 1.4e-96;  
Matches 589; Conservative 0; Mismatches 330; Indels 42; Gaps 2;

QY 110 GGACCCAGCGAGTACCTATCCCTTCGGGTGTCTGTGGCTATCGCTGATCTTCCTG 169  
DB 88 GGGCCCCAGCAGACAGAGCTGTTTCATGCCCCATCTGTGCCACATACCTGCTGATCTTCG 147

Qy	170	GTGGGTAATAGGGCAATCTTCTGGTGTGATGGTGTATGTCGACACATAGACTTTTGAAG	229
Db	148	GTGGCGCCTGTGGGCAATGGCGTAGCCTGTCTGTCTATCTCGGCCACAAGGCATCGC	207
Qy	230	ACACCCACCAACTACTATCTTTCAGCTTGGCAGTCTTCAGATCTGCTGTGTCCTGCTCTTG	289
Db	208	ACGCCTACCAACTACTACTCTTTCAGCCTGGCGGTCTCGGACTGCTGTGCTGCTGCTGGTG	267
Qy	290	GGGATGCCCTCTGGAAATCTTACGAGATGTGCACAAATTACCCCTTTTCCCTGTTTCGGGCCCTGTG	349
Db	268	GGCGTGCCTCGGAGCTCTATGAGATGTGCACAACTACCCCTTCTGCTGGCGGTGGT	327
Qy	350	GGATGCTACTTCAAGACAGCCCTCTTCGAGACTGTGTGCTTTTGGCTTCCATCTTCAGTGTCTC	409
Db	328	GGCTGCTATTTTTCCGACGCTACTGTTTGAATGGTCTGCCTGGCCTCAGTGTCTCAAGCTC	387
Qy	410	ACCACGGTTAGCGTAGAGCGCTATGTGGCCATGTTCACACCTTTTCGGAGCAAGCTGGAG	469
Db	388	ACTTGCCCTGAGCTGGNACGCTATGTGGCCGTGGTGCACCCACTCCAGGCCAGGTCCCATG	447
Qy	470	AGCACGGCGGACGGGCCCTCAGGATCCTCAGGCCTAGTCTGTGAGCTTCTCTGTGGTCTTT	529
Db	448	GTACGGCGGCCCATGTGCGCCGAGTCTTTGGGCGCTCTGGGCTCTTGCCATGCTCTGCTGC	507
Qy	530	TCCTTTGCCCAATACCAAGCATCCATGGGATCAAGTTCAGACACTTTTCCCAAGGGGTCTCTCC	589
Db	508	TCCTGTCGCAACACCAAGCCTGCACGGCATCCGACGCTCCGACGCTGACGCTGCCCTGCCGGGGCCCA	567
Qy	590	GTACCTGGCTCAGCACCTCTCACAGTCCACAAACCCCATGTGGGTGTATAACTTGATCATC	649
Db	568	GTGCCAGACTCAGCTGTTTGCATGTGGTCCGGCCACGGGCCCTCTACAACATGGTGTAGTG	627
Qy	650	CAAGCTACAGCTTCCCTTCTTACATCTCCCAATGACCCCTCATCATGCGTCTCTCTACTAC	709
Db	628	CAGACCAACCGCGTCTCTTCTTCTGCTGCCCATGSCCATCATGACGCTGCTCTACCTG	687
Qy	710	CTCATGGGGCTCAGGCTGAAGAGAGATGA-----ATCCCTGTAGGCGGACAAAGT	759
Db	688	CTCATGGGTGGCGCTCGCGGGAGAGGCTGCTGCTCATGAGGAGGCCAAGGGCAGG	747
Qy	760	GGCTGTGAATATTACAGACCCCTCTAGAAAGTCAGTCAAC-----	799
Db	748	GGCTCTGCACGACGAGGTCCAGATACCTGACGGCTCCAGGACGACGATCGGGGGCCGG	807
Qy	800	-----AAGATGCTGTTTGTCTTGGTCTCTGTTTGGCCATCTGCTGGACCCCC	847
Db	808	AGACAAGTGAAGAAGATGCTGTTTGTCTGCTGCTGCTGCTGGTCTGCTGGGCCCG	867
Qy	848	TTCCATGTGGACCGGCTCTTCTTCAGCTTTGTGGAAGAGTGGACAGAGTCCCTTGGTGTCT	907
Db	868	TTCCAGCCCGCCGCGCTCATGTGGAGCGTGTGTACAGTGGACAGATGGCCTGCACCTG	927
Qy	908	GTGTTCAACCTCATCCATGGTATCATAGGTGCTTCTTTTATCTGAGCTCCGGGGTCAAC	967
Db	928	GCCTTTCAGCACCGTGCACGTCTCTCGGCATCTTCTTCTACTTGGGCTCGGGGGCCAC	987
Qy	968	CCCATTATCTATAACCTCTCTGCTCGCGCTTCCGGCGGCCTTTCGAAATGTTGTCTCC	1027
Db	988	CCCGTGTCTATAGCCTCATGTCCAGCGCTTCCGAGAGACCTTCCAGGAGGCCCTGTGCTGC	1047
Qy	1028	C 1028	
Db	1048	C 1048	

**RESULT 12**

RESOLUTION 12  
US-10-251-385-223

US-10-231-383-223  
; Sequence 223, Application US/10251385

; sequence 223, Application US/10.  
; Publication No. US20030105292A1

; PUBLICATION NO: US20

APPLICANT: Behan, Dominic P.

APPLICANT: Chalmers, Derek T.

APPLICANT: Liaw, Chen W.

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; TITLE OF INVENTION: No. US20030105292A1-Endogenous, Constitutively Activated Human
;
; TITLE OF INVENTION: Protein-Coupled
;
; TITLE OF INVENTION: Receptors
;
; FILE REFERENCE: AREN-0040
;
; CURRENT APPLICATION NUMBER: US/10/251,385
;
; CURRENT FILING DATE: 2002-09-20
;
; PRIOR APPLICATION NUMBER: US/09/170,496
;
; PRIOR FILING DATE: 1998-10-13
;
; NUMBER OF SEQ ID NOS: 294
;
; SOFTWARE: PatentIn version 3.1
;
; SEQ ID NO 223
;
; LENGTH: 1212
;
; TYPE: DNA
;
; ORGANISM: Homo sapiens
;
US-10-251-385-223

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Query Match 26.7%; Score 329; DB 14; Length 1212;

110	GGACCCAAAGCGGAGTGACCTATACCCCTTCCGGGTGCTGTGGCCCTATAGGCGTGATCTTTCCTG	169
QY		
88	GGGCGCCAGCAGACAGAGCTGTTATGCCATCTGTGCCACATACCTGTGATCTTTCGTTG	147
Db		
170	GTGGGGGTATYGGGCAATCTTCTGGTGTGCATGGTGATTCTCGACATCAGACTTTTGAAG	229
QY		
148	GTGGGCGCTGTGGCAATAGGGCTGACCTGTCTGGTGCATCTGTGGCCACAAAGGCCATGCGC	207
Db		
230	ACACCCACCACTACTATCTCTCAGCTTGGCAGTCTCAGATCTGCTGGTGCCTGCTCTTG	289
QY		
208	AGCCTTACCACTACTACTCTTCAGCCTGGCCGTGTCGGACCTGCTGGTGTGCTGGTG	267
Db		
290	GGGATGCGCTTGGAAATCTACGAGATGTGGCACAAATACCTTTTCTGTTGGGCGCTGTG	349
QY		
268	GGCTTGCCCTGGAGCTCTATAGATGTGGCAAACTACCCCTTCTGCTGGCGTGGGT	327
Db		
350	GGATCTACTTTCAGACAGCCCTCTTCGAGACTGTGTGCTTTGCCCTCCATTTCTCAGTGTC	409
QY		
328	GGCTGCTATTTCCGACGCTACTGTTTCAGATGGTCTGCGCTCAGTGCTCAACGTC	387
Db		
410	ACCCAGGTTTAGGTTAGAGCGGTATGTGGCCATGTGCCACCTTTCCGAGGCCAAGCTGGAG	469
QY		
388	ACTGCCCTGAGCGTGGAAACGCTATGTGGCCGTGTGCACCCACTCCAGGCCAGGTCCATG	447
Db		
470	AGCAGCGCGGCAGCGGGCCCTCAGATCCTCAGCCTAGTCTGGAGCTTCTCTGTGCTGCTTT	529
QY		
448	GTGAGCGCGGGCCATGTGCGCCGAGTGCCTTGGGCGCTCTGGGCTCTTGGCATGCTCTGC	507
Db		
530	TCTTTGCCCATACACGATCCATGCGGATCAAGTTCACGACATTTCCCAACGGGTCTCTCC	589
QY		
508	TCCCTGCCCAACACAGCCTGCACGGCATCGGCAGCTGCACGTGCCCTGCCGGGGCCCA	567
Db		
590	GTACCTGGCTCAGCCACCTGCACAGTCAACAAACCATGTGGGTGTATAACTTTGATCATC	649
QY		
568	GTGCCAGACTCAGCTGTTTGGCATGCTGGTCCGCCACGGGCCCTCTACACATGGTAGTG	627
Db		
650	CAAGCTACCAAGCTTCTTCTTACATCCTCCCAATGACCCTCATCAGCGTCTCTACTAC	709
QY		
628	CAGACACCGCGCTGCTCTTCTTCTGCTGCCATGGCCATCATGAGCGTGTCTACCTG	687
Db		
710	CTCATGGGGCTCAGGCTGAGAGATGA-----ATCCCTTTGAGGCGAACAAAGT	759
QY		
688	CTCATTTGGGCTCCGACTCCGGCGGAGAGGCTGCTGTCATGAGGAGGCCAAGGCGAG	747
Db		
760	GGCTGTGGAATATTACAGACCCCTCTAGAAAGTCAAGTCACC-----	799
QY		
748	GGCTCTGCAGCAGCGCAGTCCAGATACACCTTGCAGGCTCCAGCAGCATCGGGCCGG	807
Db		
800	-----AAGATCGTTTGTCTTGGTCTCGTGTTTGCCATCTGCTGAGCCCC	847
QY		
808	AGACAGTAGAAGATGCTGTTTGTCTGCTGTGTGTGTTTGGCATCTGCTGGGCGCG	867
Db		
848	TTCCATGTGGACCGGCTCTTCTTACGCTTTTGTGGAAGAGTGGACAGAGTCCCTTGGCTGT	907
QY		

Db 868 TTCCACGCCGACCGCTCATGTGGAGCGTCGTACAGTGGACAGATGSCCTGACACG 927  
QY 908 GTGTTCAACCTCATCCATGTGATGATCAGTGTCTCTTTTATCTAGCTCCGGGTCAC 967  
Db 928 GCCTTCCACACGTCGACGTCATCTCCGGCATCTTCTTACCTGGGCTCGGGGCCAAC 987  
QY 968 CCATTATATAACTCTGCTCGGCGCTTCCGGGCGGCTTTTCGAATGTTGTCCTC 1027  
Db 988 CCGTGCTCTATAGCCTCATGTCCAGCGCTTCCGAGACACCTTCCAGGAGCCCTGTGC 1047  
QY 1028 C 1028  
Db 1048 C 1048

## RESULT 13

US-10-251-385-209  
; Sequence 209, Application US/10251385  
; Publication No. US20030105292A1  
; GENERAL INFORMATION:  
; APPLICANT: Behan, Dominic P.  
; APPLICANT: Chalmers, Derek T.  
; APPLICANT: Liaw, Chen W.  
; TITLE OF INVENTION: No. US20030105292A1-Endogenous, Constitutively Activated Human G  
; TITLE OF INVENTION: Protein-Coupled  
; TITLE OF INVENTION: Receptors  
; FILE REFERENCE: AREN-0040  
; CURRENT APPLICATION NUMBER: US/10/251,385  
; CURRENT FILING DATE: 2002-09-20  
; PRIOR APPLICATION NUMBER: US/09/170,496  
; PRIOR FILING DATE: 1998-10-13  
; NUMBER OF SEQ ID NOS: 294  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 209  
; LENGTH: 1101  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-10-251-385-209

Query Match 10.9%; Score 134.4; DB 14; Length 1101;  
Best Local Similarity 50.3%; Pred. No. 5.1e-33;  
Matches 439; Conservative 0; Mismatches 421; Indels 12; Gaps 4;  
QY 140 GTCTGTGTGCGCTATCGCTGATCTTCCCTGGTGGGGTAATGGCAATCTCTGTGGTGC 199  
Db 136 GTACAGCCNCTCGCTGGCACTCTCTGTTGGTGTATCGCTGGCAACCTGCTCACCATG 195  
QY 200 ATGGTGATGTCCGACATCAGACTTTGAAGACACCACCACTACTATCTCTTACGCTTG 259  
Db 196 CTGGTGGTGTGCGGCTTCCGCGAGCTGCGCACACCACCACTCTACCTGTCCAGCATG 255  
QY 260 GCAGTCTCAGATCTGCTGCTTGGGGATGCTTGAAGACACCCTCTGAAATCTACGAGATGG 319  
Db 256 GCCTTCTCGATCTGCTATCTTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 312  
QY 320 CACAATTACCTTCT 379  
Db 313 CAGTACCGGCGCTGAGACTTGGCGACTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 372  
QY 380 ACTGTGTGCTTGGCTTCCATCT 439  
Db 373 AGCTGCACCTACGCCACGCTGCTCACCATCAGAGCGCTGAGCGTGCAGCGCTACTTTCGCC 432  
QY 440 ATTGTCCACCTTTCGAGCCAGCTGGAGAGCAGCGGCGGAGCGGCGCTCAGGATCCTC 499  
Db 433 ATCTGCTTCCCACTCCCGGCGCAAGTGGTGGTCAACCAAGGGGCGGCTGAAGCTGGTCATC 492  
QY 500 AGCTAGTCTGAGGCTTCTCTGCTGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 559  
Db 493 TTGCTCATCTGGGCGCTGCT 552  
QY 560 AAGTTCACGACTTTTCCCAACGGGTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 619

Db 553 GAGCAGGACGACCGGACCGCACCTTGGGACACCAACGAGTGCCTGCCACCGAGTTTGGC 612  
QY 620 AAACCCATGTGGTGTATTAACCTTGAATCATCCAAAGCTACCAGCTTCTCTCTACATCCTC 679  
Db 613 GTGGGCTCTGGGACTGCTACGGTCAATGGTGTGGGTGTCCAGCATCTCTTCTCT--TCCCT 669  
QY 680 CCAATGACCTCATCAGCGTCTCTACTACTCTCATGCGGCTCAGGCTGAAGAGAGATGAA 739  
Db 670 CTGTCTTCTGTCTCAGGTCTCTACAGTCTCATCTCGGAGAGAGTGTGGCGGAGGAGG 729  
QY 740 TCCCTTGGGCGAACAAGTGGCTGTGAATATTCACAGACCTCTTAGAAAGTCAAGTCAAC 799  
Db 730 CGCGGAGTCTCTGCTGGGTGCTCGCTCAGGACCAAGAAC--ACAAGAACCAAG 786  
QY 800 AAGATGCTGTTGTCTTGGTCTCTGCTGTTGGCATCTGCTGGACCCCTTCCATGTTGGAC 859  
Db 787 AAAATGCTGGCTGTAGTGTGTTGCCCTTTCATCTCTCTCTCTCTCTCTCTCTCTCTCT 846  
QY 860 CG--GCTCTTCTTACAGCTTTGTGGAAGAGTGCACAGAGTCCCTGCTGCTGTGTTCAAC 916  
Db 847 CGATATTTATTTTCCAAATCCTTTGAGCCTGGCTCTCTGGAGATTGCTCAGATCAGCCAG 906  
QY 917 CTCATCCATGTGTATCAGGTGCTTCTTTTATCTGAGTCCGCGTCAACCCCATTTATC 976  
Db 907 TACTGCAACCTCGTGTCTCTTGTCTCTTCTACCTCAGTCTGCCATCAACCCCATCTG 966  
QY 977 TATAACCTCTCTCTCGGCGCTTCCGGCGGC 1008  
Db 967 TACAACATCATGTCTCAAGAGTACCGGTTGGC 998

## RESULT 14

US-10-251-385-87  
; Sequence 87, Application US/10251385  
; Publication No. US20030105292A1  
; GENERAL INFORMATION:  
; APPLICANT: Behan, Dominic P.  
; APPLICANT: Chalmers, Derek T.  
; APPLICANT: Liaw, Chen W.  
; TITLE OF INVENTION: No. US20030105292A1-Endogenous, Constitutively Activated Human  
; TITLE OF INVENTION: Protein-Coupled  
; TITLE OF INVENTION: Receptors  
; FILE REFERENCE: AREN-0040  
; CURRENT APPLICATION NUMBER: US/10/251,385  
; CURRENT FILING DATE: 2002-09-20  
; PRIOR APPLICATION NUMBER: US/09/170,496  
; PRIOR FILING DATE: 1998-10-13  
; NUMBER OF SEQ ID NOS: 294  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 87  
; LENGTH: 1101  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-10-251-385-87

Query Match 10.8%; Score 132.8; DB 14; Length 1101;  
Best Local Similarity 50.2%; Pred. No. 1.7e-32;  
Matches 438; Conservative 0; Mismatches 422; Indels 12; Gaps 4;  
QY 140 GTCTGTGTGCGCTATCGCTGATCTTCTCTGTTGGGGTAATGGCAATCTCTTGTGTGC 199  
Db 136 GTACAGCCACCTCGCTGGCACTCTTCTGTTGGTGGTATCGCTGGCAACCTGCTCACCATG 195  
QY 200 ATGGTGATGTTCGAGATCAGACTTTGAAGACACCACCACTACTATCTCTTCACTG 259  
Db 196 CTGGTGGTGTGCGGCTTCCGCGAGCTGCGCACACCACCACTCTTACCTGTCCAGCATG 255  
QY 260 GCAGTCTCAGATCTGCTGCTTGGGGATGCTTGAAGATCGCTTGAAGATGTGG 319  
Db 256 GCCTTCTCGATCTGCTCATCTTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 312  
QY 320 CACAATTACCTTCT 379

Db 313 CAGTACCGGCTCGAATTCGGGACCTCTCTGCAAACTTCTCCAAATTCGTAGTGAG 372  
Qy 380 ACTGTGTCTTGTCTCCATTCCTAGTGTCTACACGCTTACGCTAGAGCGCTGTGTGGCC 439  
Db 373 AGCTGCACCTACGCGACGCTGCTCACCATCACAGGCTGAGCGTCTACTTCGCC 432  
Qy 440 ATTGTCCACCTTTCCGAGCAAGCTGGAGAGCACGGCGGACGGCCCTCAGGATCCTC 499  
Db 433 ATCTGTCTCCCACTCCGGGCGCAAGTGTGTGTACCAAGGGCGGTGAAGCTGGTCATC 492  
Qy 500 AGCCTAGTCTCGAGTCTCTGTGTCTTTTCTTTGGCCCAATACAGCATCCATGGCATC 559  
Db 493 TTCTGTCTCTCGGCGCTTCTGTGAGCGCGGCCCATCTTCTGTCTAGTGGGGTG 552  
Qy 560 AAGTTCAGCACTTTCCCAAGGGTCTCTCTGCTACCTGCTCAGGCACCTGCACAGTCAAC 619  
Db 553 GAGCAGAGAACGGACCGACCTTTGGGACACCAAGAGTCCCGCCCGACCGAGTTTGGC 612  
Qy 620 AAACCCATGTGGGTGTATAAATTGATCATCAAGCTACAGCTTCTCTTCTACATCCTC 679  
Db 613 GTGGCTCTGACTGCTCACGGTCTATGTGTGGGTCTCCAGCATCTTCTTCT--TCCTT 669  
Qy 680 CCAATGACCTTCATCAGGCTCTCTACTACCTCATGGGCTCAGGCTGAAGAGATGAA 739  
Db 670 CTTGTCTCTCTCACGGTCTCTACAGTCTCATCGGCAGGAAGCTGTGGCGGAGG 729  
Qy 740 TCCTTGAAGCGAACAAGTGGCTGTGAATATTACAGACCTCTAGAACTCAGTCAAC 799  
Db 730 CGCGGATGTCTGCTGGGTGCTCTGCTAGGACCAAGAACCAAGCAACCGT---G 786  
Qy 800 AAGATGCTGTGTGTGTGGTCTCTGTGTGGTCTGCTGAGACCCCTTCCATGTGGAC 859  
Db 787 AAATGCTGTGTGTGTGTGGTCTCTGTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 846  
Qy 860 CG---GCTCTCTTCTAGCTTTGTGGAGAGTGGAGAGTCCCTGGCTGTGTGTCAAC 916  
Db 847 CGATATTATTTCCTCAATCTCTTGTGGCTGCTCTTGTGGAGATTGTCTCAGATCAGCCAG 906  
Qy 917 CTCATCATGTGTGTATAGGTCTCTCTCTTCTTATCTGAGCTCGCGGTCAACCCCATATC 976  
Db 907 TACTGCAACCTCGTGTCT 966  
Qy 977 TATAACCTCTCTCTCGGCGCTTCCGGGCGC 1008  
Db 967 TACAACATCATGTCCAAGAACTACGGGTGC 998

RESULT 15

US-10-270-333-194  
; Sequence 194, Application US/10270333  
; Publication No. US20030092124A1  
; GENERAL INFORMATION:  
; APPLICANT: Craychik, Anibal  
; TITLE OF INVENTION: ISOLATED G-PROTEIN COUPLED RECEPTORS,  
; TITLE OF INVENTION: NUCLEIC ACID MOLECULES ENCODING GPCR PROTEINS, AND USES  
; FILE OF INVENTION: THEREOF AS INSECTICIDAL TARGETS  
; FILE REFERENCE: CL0007330N  
; CURRENT APPLICATION NUMBER: US/10/270.333  
; CURRENT FILING DATE: 2002-10-15  
; PRIOR APPLICATION NUMBER: 60/168,677  
; PRIOR FILING DATE: 1999-12-03  
; PRIOR APPLICATION NUMBER: 60/175,691  
; PRIOR FILING DATE: 2000-01-12  
; PRIOR APPLICATION NUMBER: 60/191,638  
; PRIOR FILING DATE: 2000-03-23  
; NUMBER OF SEQ ID NOS: 198  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 194  
; LENGTH: 1788  
; TYPE: DNA  
; ORGANISM: Drosophila  
US-10-270-333-194

Query Match 9.3%; Score 114.2; DB 14; Length 1788;  
Best Local Similarity 49.0%; Pred. No. 2.6e-26;  
Matches 434; Conservative 0; Mismatches 403; Indels 48; Gaps 3;  
Qy 146 GTGGCTATGGCTGTATCTTCTGGTGGGGTAATGGCAATCTTCTGGTGTGATGTGTG 205  
Db 199 GTGGCTACGGCTCATATTTATGCGGCGCTTTTGGCAACCTCATCACATGATGCTC 258  
Qy 206 ATTCTCCGACATCAGACTTTCAAGACACCCACCACTACTATCTCTTCAGCTTGGCAGTC 265  
Db 259 ATTTCCGGGAACAATTTATGCACACGGCCACCACTTTTATCTGTGTTAACTCTCGCTATA 318  
Qy 266 TCAGATGCTGTGCTCTCTGGGATGCTCTGGAATCTTACGAGATGTGGCACAAT 325  
Db 319 TCCGACATGATTTTGTATGCTCAGGAATGCGGAGGACCTCTATAACTCTGGCACCG 378  
Qy 326 TACCCTTTCTGTTTCGGGCTGTGGATGCTTACATTTCAAGACAGCGCTCTTCGAGACTGTG 385  
Db 379 GATAATTATCTCTTCTCAGTGACAGCATCTGCATATTTGGAGAGCGTCTCTCGGAACGGCG 438  
Qy 386 TGCTTTGCTCTCATCTCAGTGTCAACACGCTTACCGCTTACAGTCTCGAAGCATATTTGCCATTTGT 445  
Db 439 GCCAATGGCAGCTTCTAAACATTTACCGCTTACAGTCTCGAAGCATATTTGCCATTTGT 498  
Qy 446 CACCTTTTCCGAGCAAGCTGGAGAGCACGGGCGGACGGGCTCAGGATCTCTCAGCCTA 505  
Db 499 CATCGTTTCAGGAGCACACCATGTTCCAAAGTTGTACGGGCGGTAAGTTTATATTTGCC 558  
Qy 506 GTCGTGAGCTTCTCTGTGGTCTTTTCTTTTGGCCCAATACAGCATCCATGGGATCAAGTTC 565  
Db 559 ATCTGGATAGTGGCTTTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 618  
Qy 566 CAGCAGCTTTCACACGGGCTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 625  
Db 619 CAGGCTTGGGAACATCGT-----GCACGATGAAA 648  
Qy 626 ATGTGGGTGTATAACTTGTATCATCAAGCTACCAGCTTCTCTTCTTCTTCTTCTTCTTCT 685  
Db 649 AACGACTTTTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 708  
Qy 686 ACCCTCATCAGGCTCTCTACTACTCATGAGGCTCAGGCTGAGAGAGATGAATCCCTT 745  
Db 709 ACGGCTATCTGCTGCTCTATGCTCATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 768  
Qy 746 GAGCGAACAAGTG-----GCTGTGAATATTACACACCTCTCTAGAAAGTCACTC 796  
Db 769 CAGGCTTCCGAGGAGATGTACGATGTAAACGGGGGATAGCGCCCAACACGGGAGTC 828  
Qy 797 ACCAAGATGCTGTTTGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 856  
Db 829 ATCCGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 888  
Qy 857 GACCGCTCTCTTCTCAGCTTTGT-----GGAAGAGTGGACAGATGCTGCTGCTGCTGCT 907  
Db 889 CAGGCTGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 948  
Qy 908 GTGTTTCAACCTCATCCATGCTGATCATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 967  
Db 949 GTGTTTCAACCTCATCCATGCTGATCATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1008  
Qy 968 CCCATTATCTATAACCTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1012  
Db 1009 CCGCTGCTCTACAAACATCATGAGCCACAAGTTTCTGCTGAGGCTTTT 1053

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GenCore version 5.1.6  
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OM protein - protein search, using sw model

Run on: August 22, 2003, 19:07:13 ; Search time 22.4321 Seconds  
(without alignments)  
2323.674 Million cell updates/sec

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Perfect score: 2076  
Sequence: 1 MGLKENASWHDPLMKYLNS.....GQSIHNTNLTAPCAGEVP 395

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 497079 seqs, 131961718 residues  
Total number of hits satisfying chosen parameters: 497079

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000  
Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

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2: /cgn2\_6/ptodata/1/pubpaa/PCT\_NEW\_PUB.pdb.pap:  
3: /cgn2\_6/ptodata/1/pubpaa/US06\_NEW\_PUB.pdb.pap:  
4: /cgn2\_6/ptodata/1/pubpaa/US06\_PUBCOMB.pdb.pap:  
5: /cgn2\_6/ptodata/1/pubpaa/US07\_NEW\_PUB.pdb.pap:  
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1650.5	79.5	412	15	US-10-225-567A-557
2	1650.5	79.5	412	12	US-10-272-983-12
3	1022.5	49.3	249	11	US-09-782-974C-18
4	952.5	45.9	403	15	US-10-251-385-114
5	952.5	45.9	403	15	US-10-225-567A-540
6	952.5	45.9	403	15	US-10-290-078-18
7	946.5	45.6	403	15	US-10-251-385-224
8	564.5	27.2	419	9	US-09-804-551B-26
9	564.5	27.2	428	15	US-10-270-333-114
10	546.5	26.3	595	12	US-10-314-076-17
11	546.5	26.3	595	15	US-10-270-333-195
12	525.5	25.3	660	15	US-10-270-333-192
13	499	24.0	418	15	US-10-225-567A-207
14	477.5	23.0	412	15	US-10-225-567A-473
15	477.5	23.0	412	15	US-10-290-078-15

16	463.5	22.3	366	15	US-10-251-385-88	Sequence 88, Appl
17	462.5	22.3	366	15	US-10-251-385-210	Sequence 210, App
18	437	21.1	410	15	US-10-225-567A-432	Sequence 432, App
19	430.5	20.7	416	12	US-10-205-219-21	Sequence 21, Appl
20	416	20.0	398	15	US-10-225-567A-326	Sequence 326, App
21	404	19.5	399	12	US-09-935-061-16	Sequence 16, Appl
22	403.5	19.4	411	15	US-10-253-983-2	Sequence 2, Appl
23	402.5	19.4	392	12	US-09-935-061-12	Sequence 12, Appl
24	401.5	19.3	392	12	US-09-935-061-14	Sequence 14, Appl
25	400.5	19.3	400	10	US-09-966-871-85	Sequence 85, Appl
26	400.5	19.3	400	14	US-10-039-645-85	Sequence 85, Appl
27	400.5	19.3	412	15	US-10-080-917-11	Sequence 11, Appl
28	400.5	19.3	414	15	US-10-080-917-9	Sequence 9, Appl
29	400.5	19.3	418	15	US-10-185-083-40	Sequence 40, Appl
30	400.5	19.3	418	15	US-10-194-595-40	Sequence 40, Appl
31	400.5	19.3	446	15	US-10-185-083-39	Sequence 39, Appl
32	400.5	19.3	446	15	US-10-194-595-39	Sequence 39, Appl
33	400.5	19.3	476	15	US-10-080-917-7	Sequence 7, Appl
34	396.5	19.1	400	15	US-10-225-567A-186	Sequence 186, App
35	396.5	19.1	415	9	US-09-823-114-20	Sequence 20, Appl
36	396.5	19.1	415	15	US-10-290-748-20	Sequence 20, Appl
37	393.5	19.0	400	10	US-09-966-871-78	Sequence 78, Appl
38	393.5	19.0	400	14	US-10-039-645-78	Sequence 78, Appl
39	393	18.9	398	15	US-10-225-567A-456	Sequence 456, App
40	391.5	18.9	405	10	US-09-966-871-84	Sequence 84, Appl
41	391.5	18.9	405	14	US-10-039-645-84	Sequence 84, Appl
42	390	18.8	398	9	US-09-214-904-2	Sequence 2, Appl
43	387	18.6	388	15	US-10-185-083-35	Sequence 35, Appl
44	387	18.6	388	15	US-10-194-595-35	Sequence 35, Appl
45	387	18.6	390	9	US-09-761-962-25	Sequence 25, Appl

ALIGNMENTS

RESULT 1  
US-10-225-567A-557  
; Sequence 557, Application US/10225567A  
; Publication No. US20030113798A1  
; GENERAL INFORMATION:  
; APPLICANT: Lifespan Biosciences  
; APPLICANT: Brown, Joseph P.  
; APPLICANT: Burner, Glenn C.  
; APPLICANT: Roush, Christine L.  
; TITLE OF INVENTION: ANTIGENIC PEPTIDES AND ANTIBODIES FOR G PROTEIN-COUPLED RECEPT  
; FILE REFERENCE: 1920-4-4  
; CURRENT APPLICATION NUMBER: US/10/225,567A  
; CURRENT FILING DATE: 2001-12-19  
; PRIOR APPLICATION NUMBER: 60/257,144  
; PRIOR FILING DATE: 2000-12-19  
; NUMBER OF SEQ ID NOS: 2292  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 557  
; LENGTH: 412  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-225-567A-557

Query Match	79.5%	Score	1650.5;	DB	15;	Length	412;
Best Local Similarity	79.4%	Pred. No.	4.5e+139;				
Matches	312;	Conservative	36;	Mismatches	40;	Indels	5;
Gaps	1;						
QY	1	MGLKENASWHDPLMKYLNS	-----DPLMKYLNSTEEYLAHLCCPKRSDLSLPVSVAYALFLVGVGN	55			
Db	1	MEKLNASWHDPLMKYLNS	-----DPLMKYLNSTEEYLAHLCCPKRSDLSLPVSVAYALFLVGVGN	60			
QY	56	LIVLCNVIRHQTLPNTNYFLSLAVS	LDLLVLLGMPLEIYEMWHNYPLFLGPGCYFKT	115			
Db	61	VLVCLVILQHQAMKTPNTNYFLSLAVS	LDLLVLLGMPLEIYEMWHNYPLFLGPGCYFKT	120			
QY	116	ALFETVCASILSVTVSVRYVAIVHP	RAKLESTRRALRLILSLWSFSVFLSPNTS	175			
Db	121	ALFETVCASILSVTVSVRYVAIVHP	RAKLESTRRALRLILSLWSFSVFLSPNTS	180			

176	Qy	IIIGIKFQHPNPNGSSVPGSATCTVTKPMWVYLLIIQATSFYLPMTVLSVLYLMLGRL	235
181	Db	IIIGIKFHYFPNGSLVPGSATCTVIKPMWYFIITQVTSFLYLLPMTVISVLYLMAALRL	240
236	Qy	KRDESLEANKVAVNIHRSRKSIVTKMLFVLYLVPFAICWTPFHVDRLUFFSFVEWTSLSAA	295
241	Db	KDKLSLEADEGNANTQRCRKSVMKMLFVLYLVPFAICWAPFHDRLUFFSFVEWSESLSAA	300
296	Qy	VFNLIHVYSGVFYLISSAVNPFIINLLSRPRAAFRWVSPCTCKWCHPRHPGPPAQKI	355
301	Db	VFNLIHVYSGVFYLISSAVNPFIINLLSRPRQAAAFQNVISFHKWHHSQHDPLPPAQRN	360
356	Qy	IFLTECHLVVELTEDAGPQFGQSSIHNTLNTTA	388
361	Db	IFLTECHFVELTEDIGPQFGQSSMHNSHLPATA	393

## RESULT 2

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US-10-272-983-12
; Sequence 12, Application US/10272983
; Publication NO. US20030148450A1
; GENERAL INFORMATION:
; APPLICANT: Chen, Ruoping
; APPLICANT: Dang, Huong T.
; APPLICANT: Liaw, Chen W.
; APPLICANT: Lin, I-Lin
; TITLE OF INVENTION: Human Orphan G Protein Coupled Receptors
; FILE REFERENCE: AREN0050
; CURRENT APPLICATION NUMBER: US/10/272,983
; CURRENT FILING DATE: 2002-10-17
; PRIOR APPLICATION NUMBER: US/09/417,044
; PRIOR FILING DATE: 1999-10-12
; PRIOR APPLICATION NUMBER: 60/109,213
; PRIOR FILING DATE: 1998-11-20
; PRIOR APPLICATION NUMBER: 60/120,416
; PRIOR FILING DATE: 1999-02-16
; PRIOR APPLICATION NUMBER: 60/121,851
; PRIOR FILING DATE: 1999-02-26
; PRIOR APPLICATION NUMBER: 60/123,946
; PRIOR FILING DATE: 1999-03-12
; PRIOR APPLICATION NUMBER: 60/123,949
; PRIOR FILING DATE: 1999-03-12
; PRIOR APPLICATION NUMBER: 60/136,436
; PRIOR FILING DATE: 1999-05-28
; PRIOR APPLICATION NUMBER: 60/136,437
; PRIOR FILING DATE: 1999-05-28
; PRIOR APPLICATION NUMBER: 60/136,439
; PRIOR FILING DATE: 1999-05-28
; PRIOR APPLICATION NUMBER: 60/136,567
; PRIOR FILING DATE: 1999-05-28
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 74
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 12
; LENGTH: 415
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-272-983-12

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Db	124	ALFTVCFASILSITTVSVERYAILHPFRAKLOSTRRRRLRLGIVGFSVLSPLNTS	183
Qy	176	IHGIKFOHPNGSSVPGSATCTVTKPMWYNLLIOATSFLEYILPMTLISVLYYLMGURL	235
Db	184	IHGIKFYHPNGSLVPGSATCTVTKPMWIYNFLIQVTSFLEYLLPMTVISVLYYLMALRL	243
Qy	236	KRDESLEANKVAVNIHNPSPRSKVKMLFVLVLVFAICWTPHNVDRLPFSFVEEWTESLAA	295
Db	244	KKDASLEADEGNANIQRCKRSKVNKMLFVLVLVFAICWAPHIDRLPFSFVEEWSLAA	303
Qy	296	VFNLIHVVSGVFFYLLSSAVNPDIYNLLSRPRAFRNVVSTCKWCHPHRHRQGPAPQKI	355
Db	304	VFNLVHVVSGVFFYLLSSAVNPDIYNLLSRPFAAFQNVISFFHKQWHSQHDQLPPLPAQRN	363
Qy	356	IFLTECHLVELTADGAPFPQGGSSIHNTNLPTA	388
Db	364	IFLTECHFVELTIDIGQFPQCSSMHNHSLPTA	396

### RESULT 3

US-09-782-974C-18  
: Sequence 18, Application US/09782974C  
: Publication No. US20030082534A1  
: GENERAL INFORMATION:  
: APPLICANT: Vogeli, Gabriel  
: APPLICANT: Lind, Peter  
: APPLICANT: Wood, Linda S.  
: APPLICANT: Parodi, Luis A.  
: TITLE OF INVENTION: NO. US20030082534A1e1 G Protein Coupled Receptor  
: FILE REFERENCE: 411USPHRM311  
: CURRENT APPLICATION NUMBER: US/09/782,974C  
: CURRENT FILING DATE: 2002-09-04  
: PRIOR APPLICATION NUMBER: 60/165,838  
: PRIOR FILING DATE: 1999-11-16  
: PRIOR APPLICATION NUMBER: 09/714,449  
: PRIOR FILING DATE: 2000-11-16  
: PRIOR APPLICATION NUMBER: 60/198,568  
: PRIOR FILING DATE: 2000-04-20  
: PRIOR APPLICATION NUMBER: 60/166,071  
: PRIOR FILING DATE: 1999-11-17  
: PRIOR APPLICATION NUMBER: 60/166,678  
: PRIOR FILING DATE: 1999-11-19  
: PRIOR APPLICATION NUMBER: 60/173,396  
: PRIOR FILING DATE: 1999-12-28  
: PRIOR APPLICATION NUMBER: 60/184,129  
: PRIOR FILING DATE: 2000-02-22  
: PRIOR APPLICATION NUMBER: 60/185,421  
: PRIOR FILING DATE: 2000-02-28  
: PRIOR APPLICATION NUMBER: 60/185,554  
: PRIOR FILING DATE: 2000-02-28  
: PRIOR APPLICATION NUMBER: 60/186,530  
: PRIOR FILING DATE: 2000-03-02  
: Remaining Prior Application data removed - See File Wrapper or PALM.  
: NUMBER OF SEQ ID NOS: 192  
: SOFTWARE: PatentIn version 3.1  
: SEQ ID NO 18  
: LENGTH: 249  
: TYPE: PRT  
: ORGANISM: Homo sapiens  
: US-09-782-974C-18



Qy	18	LNSTBYL-AHLGCGPKRSDLSLPVSVAVALIFLVGVGNLLVCMVIVRHQTLPKPTNYXL 76
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Qy	77	FSLAVSDLLVLLGMPLEIYEMWNIYDFLEPCVCCYEKTFALFETVCFASLTLSVTTVTSVER 136
Db	77	FSLAVSDLLVLLGVLPLEIYEMWNIYDFLLGVGGCYERTLLFEMVCLASLVNLTALSVSR 136
Qy	137	YVAVIHPFRAKLESTRRRALRILSLWSFSVVFSLPNTSLHGKFKOHPNGSSVPGSATC 196
Db	137	YVAVVHPLOARSMTVAHRVRVLGAVGWLAMCLSLPNTSLHGTRQLHPCRGVPDPSAVC 196
Qy	197	TVTKPMWVYNLIQATSEFLYILPMTLISVLYILMGLRKLKRDSEL---EAN----- 244
Db	197	MLVRPRALYNMVVQTALLFFCLPMAIMSVLYLLIGLURLRRERLLMQEAKRGSAARS 256
Qy	245	--KVAVINHRPSRKSVTMKMLVVLVPAICHTPPHVDRLFFSFVEKWTESLAAPNLIHV 302
Db	257	RYTCRLQQRHGRGROVTKMLFVLVWVGICWAPHADRVMMVSVQMTDGLHIAFOHVHV 316
Qy	303	VSGVFYFLLSAVNPITYNLLSRPRFAAFNVV-----SPHC 338
Db	317	ISGIFYLCSANPVLVSLMSRRFTEQALCLGACCHRLRPHRSSHLSRMTGTGSLC 376
Qy	339	-----KWCHPHRRPQGGPPAQK 354
Db	377	DVSGSLGSWVHPLAGNDGPEAQO 398

## RESULT 7

US-10-251-385-224  
; Sequence 224, Application US/10251385  
; Publication No. US20030105292A1

; REGISTRATION NO: 0340030105232ARI  
; GENERAL INFORMATION:

APPLICANT: Behan, Dominic P.

APPLICANT: Chalmers, Der

APPLICANT: Liaw, Chen W.

; TITLE OF INVENTION: NO. US20030105299

; TITLE OF INVENTION: Protein-Coupled

; TITLE OF INVENTION: Rece

; FILE REFERENCE: AREN-0040

; CURRENT APPLICATION NUMBER: US/10

; CURRENT FILING DATE: 2002-09-20

;; PRIOR APPLICATION NUMBER: US/  
: PRIOR FILING DATE: 1998-10-13

; PRIOR FILING DATE: 1998-1  
 : NUMBER OF SEQ ID NOS: 304

; NUMBER OF SEQ ID NOS: 294  
; SOFTWARE: Paton in version 3.1

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; SOFTWARE: PatentIn version
: CEO ID NO 22A

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; SEQ ID NO 224
: LENGTH: 403

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; LENGTH: 403
; TYPE: PRT

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TYPE: PRT  
ORGANISM: HOM

Query Match 45.68; Score 946.5; DB 15; Length 403;

Best Local Similarity 47.68; Pred. No. 2, 6e-76;

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Qy	18	LNSTEYL-AHLGCPKRSDSLSPVSAYAIFLVGVGNLLVCWIVTRHOTLUKTPTNYVL	76
Dd	17	LNLTDALRLKYLLPQOOTELFMFPCATYLLIFVVGVAGNGLTCLVILRHKAMRTPTNYVL	76
Qy	77	FSLAVSDLLVLLGLMPELIEYMHNYPFLGPGCCYFKTALPETWCFAASILSVTVTSVER	136
Dd	77	FSLAVSDLVLLVGLPULLEYEMHNYPFLGVGGCYFRTLLEFWCVLASLVNTALSVER	136
Qy	137	VYAVHPRAKLESTRARRAARILISWSFSWFSPNTSIHGKKFHGFNGSSVPGSAPTC	196
Dd	137	VYAVHPLQARSMTVAHRVRVLGAVWGMLCSLPTNSLHGIRQLHPCRGVPDPSAVC	196
Qy	197	TVTPKMWYNLIIGATSELFYILPMTLISLYVLMGLRLKRDESL---	244
Dd	197	MLVRPALYNMVGVOTALLPFCPLMAIMSYLYLLIGLRRLRRLLMOBAKGRGSAARS	256

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; TYPE: PRT  
 ; ORGANISM: Drosophila melanogaster  
 US-09-804-551B-26

Query Match 27.28: Score:

Query Match	27.26;	Score	304.3;	DB 3;	Cell
Best Local Similarity	32.28;	Pred.	No. 3.2e-42;		

Best Local Similarity 34.2  
Matches 118; Conservative

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Db 6 MSHDLGPPRDPLAIVIPV

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Db 66 DFLLLSGVPQEVSIIWSKYPYV

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126 PFLGQAMSKLSRAIRIIVLVWIMAVTAIPQAAQFGI--EHY-----SGVE

202 UNIVNI Y TOAETSEI EV TI OMTI TSVI VVI MCI BI KPODECI

203 WYNNLIQATSELFYILPMTLISVLYYLMGLRLKRDESLEA-----

244	QY	-----NKVAVNIHPRSRKSVTKMLFVLVLVFAI	271
		:                  :                  :                  :	
236	Db	YRYGGGTAMSPNGGSGAGTAGLGGSGAQLSSVGRGLNHYGTRRVLRLMLVAVVVCFL	295
		:                  :                  :                  :	
272	QY	CWTPEHVDRLPFV-----EWTBSLAAVFNLIIHWGVPFYLSASVNIYIYNLLSRFR	327
		:                  :                  :                  :	
296	Db	WAPFHAQRLIIATYAPARGAKLRDQHEPVYVTMTVSGVLYLSTCINPLLYNIMSHKR	355
		:                  :                  :                  :	
328	QY	AAFRNVV	334
		:                  :	
356	Db	EAFKAVL	362

## RESULT 9

US-10-270-333-114  
; Sequence 114, Application US/10270333  
; Publication No. US20030092124A1

; GENERAL INFORMATION:

;; TITLE OF INVENTION: ISOLATED G-PROTEIN COUPLED RECEPTORS,  
;; TITLE OF INVENTION: NUCLEIC ACID MOLECULES ENCODING GPCR PROTEINS, AND USES  
;; TITLE OF INVENTION: THEREOF AS INSECTICIDAL TARGETS  
;; FILE REFERENCE: CL000733CON  
;; CURRENT APPLICATION NUMBER: US/10/270,333  
;; CURRENT FILING DATE: 2002-10-15  
;; PRIOR APPLICATION NUMBER: 60/168,677  
;; PRIOR FILING DATE: 1999-12-03  
;; PRIOR APPLICATION NUMBER: 60/175,691  
;; PRIOR FILING DATE: 2000-01-12  
;; PRIOR APPLICATION NUMBER: 60/191,638  
;; PRIOR FILING DATE: 2000-03-23  
;; NUMBER OF SEQ ID NOS: 198  
;; SOFTWARE: FastSeq for Windows Version 4.0  
;; SEQ ID NO 114  
;; LENGTH: 428  
;; TYPE: PRT  
;; ORGANISM: Drosophila  
US-10-270-333-114

Query Match 27.2%; Score 564.5; DB 15; Length 428;  
Best Local Similarity 32.2%; Pred. No. 3.3e-42;  
Matches 118; Conservative 78; Mismatches 104; Indels 67; Gaps 6;  
Qy 25 LAHLCGPKRSDLS--LPVSAYALIFLVGMGNLLVCMVIVRHQTLKPTNYILFSLAVS 82  
Db 6 MSHDLGPPROPDLAIVIPVTVVYSLFITGVGNISTCIVIKKNSMHTATNYILFSLAIS 65  
Qy 83 DLLVLLGLMPLIEIYEMHNNPFLGPGVGCYFKTALFETVCFASILSVTTSVVERVVAIVH 142  
Db 66 DFLLLSGVPOEYSIWSKYPIYFGEYICIGRGLAETSANATVLTITAFETVRYAICH 125  
Qy 143 PFRAKLESTRRLRIILSLVMSFSVFLPNTSHGKFOHFPNGSSVPGSATCTVTKPM 202  
Db 126 PFLQAMSKLSRAIRIIVLVMAIVTAIQAAQFGI--EHY-----SGVEQCGIVRVI 177  
Qy 203 WYVNLIIQATSFYILPMTLISVLYLMGLRKRDLEA----- 243  
Db 178 VKHS--FQLSTFIIFLAPMSIILVYLLIGVHLVSLVEGPASVARRQQLSKVPSDTIL 235  
Qy 244 ----- 244  
Db 236 YRYGGSGTAMFNGGSGGACTAGLMGGGAGLSSVGRGLNHYGTRRYLRMLVAVVVGFFL 295  
Qy 272 CWTPEFHVDLRFSEFV----EWTESLAIVENLIHWGSGVFYLLSSAVNPIIYNLLSRER 327  
Db 296 CWAFPHAQRLAIAPARGAKLRDQHEFVTVVTVYVSGVLYLSTCINPLLYNIMSHKFR 355  
Qy 328 AAFRNVV 334  
Db 356 EAFKAVL 362

RESULT 10  
US-10-314-076-17  
; Sequence 17, Application US/10314076  
; Publication No. US20030152977A1  
; GENERAL INFORMATION:  
; APPLICANT: Bristol-Myers Squibb Company  
; TITLE OF INVENTION: NOVEL HUMAN G-PROTEIN COUPLED RECEPTOR, HGPRBW34, AND VARIANTS A  
; TITLE OF INVENTION: METHODS OF USE THEREOF  
; FILE REFERENCE: D0197NP  
; CURRENT APPLICATION NUMBER: US/10/314,076  
; CURRENT FILING DATE: 2002-12-06  
; PRIOR APPLICATION NUMBER: U.S. 60/338,371  
; PRIOR FILING DATE: 2001-12-06  
; NUMBER OF SEQ ID NOS: 22  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 17  
; LENGTH: 595  
; TYPE: PRT  
; ORGANISM: Drosophila melanogaster  
US-10-314-076-17

Query Match 26.3%; Score 546.5; DB 12; Length 595;  
Best Local Similarity 35.1%; Pred. No. 2e-40;  
Matches 120; Conservative 68; Mismatches 115; Indels 39; Gaps 9;  
Qy 14 LMKYLNSTEEYLAHLGPKRSDLSLP-----VSVAYALIFLVGMGNLLVCM 60  
Db 26 LTQVLNISADNLTSLLQGLEPEELPTVTPMTPLSLLATLSGVALLFIAGVLGNLTICI 85  
Qy 61 VIVRHQTLKPTNYILFSLAVSDDLVLGLLGNPLIEYEMWH--NYPFLFGPGVGCYFKTALF 118  
Db 86 VISRNNFMHTATNFYENLAISDMILLCSGMPQDLYNLWHPDNYP--FSDSICILLESVLS 143  
Qy 119 ETVCFASILSVTTSVVERVVAIVHPFRAKLESTRRLRIILSLVMSFSVFLPNTSHG 178  
Db 144 ETAAATVLTITAFETVRYAICHPPHQHTMSKLSRAVKFIFAIAALLALP-----QA 199  
Qy 179 IKFOHFPNGSSVPGSATCTVTKPMVYNLIQATSFYILPMTLISVLYLMGLRKRD 238  
Db 200 IOFSVVMQGM---GTSCMKNDFFAH--VFVSGFLFFGGPMTAICVLVYLIGVKLKRS 253  
Qy 239 ESLEA---NKVAVNIHRPSKSVTKMLFVLVLFVFAICWTPTHVDRLPFSF-----VEEW 289  
Db 254 RLQALPRRCYDYNRGISAQTRVIRMLVAVAVAFICWAPHAQRLMAVVGSTSGIESQW 313  
Qy 290 TESLAAYENLIHWGSGVFYLLSSAVNPIIYNLLSRERFAAPR 331  
Db 314 FND---VFSILDYTSGLVYFLSTCINPLLYNIMSHKREAPK 352

RESULT 11  
US-10-270-333-195  
; Sequence 195, Application US/10270333  
; Publication No. US2003009212A1  
; GENERAL INFORMATION:  
; APPLICANT: Cravchik, Anibal  
; TITLE OF INVENTION: ISOLATED G-PROTEIN COUPLED RECEPTORS,  
; TITLE OF INVENTION: NUCLEIC ACID MOLECULES ENCODING GPCR PROTEINS, AND USES  
; TITLE OF INVENTION: THEREOF AS INSECTICIDAL TARGETS  
; FILE REFERENCE: CL000733CON  
; CURRENT APPLICATION NUMBER: US/10/270,333  
; CURRENT FILING DATE: 2002-10-15  
; PRIOR APPLICATION NUMBER: 60/168,677  
; PRIOR FILING DATE: 1999-12-03  
; PRIOR APPLICATION NUMBER: 60/175,691  
; PRIOR FILING DATE: 2000-01-12  
; PRIOR APPLICATION NUMBER: 60/191,638  
; PRIOR FILING DATE: 2000-03-23  
; NUMBER OF SEQ ID NOS: 198  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 195  
; LENGTH: 595  
; TYPE: PRT  
; ORGANISM: Drosophila  
US-10-270-333-195

Query Match 26.3%; Score 546.5; DB 15; Length 595;  
Best Local Similarity 35.1%; Pred. No. 2e-40;  
Matches 120; Conservative 68; Mismatches 115; Indels 39; Gaps 9;  
Qy 14 LMKYLNSTEEYLAHLGPKRSDLSLP-----VSVAYALIFLVGMGNLLVCM 60  
Db 26 LTQVLNISADNLTSLLQGLEPEELPTVTPMTPLSLLATLSGVALLFIAGVLGNLTICI 85  
Qy 61 VIVRHQTLKPTNYILFSLAVSDDLVLGLLGNPLIEYEMWH--NYPFLFGPGVGCYFKTALF 118  
Db 86 VISRNNFMHTATNFYENLAISDMILLCSGMPQDLYNLWHPDNYP--FSDSICILLESVLS 143  
Qy 119 ETVCFASILSVTTSVVERVVAIVHPFRAKLESTRRLRIILSLVMSFSVFLPNTSHG 178  
Db 144 ETAAATVLTITAFETVRYAICHPPHQHTMSKLSRAVKFIFAIAALLALP-----QA 199  
Qy 179 IKFOHFPNGSSVPGSATCTVTKPMVYNLIQATSFYILPMTLISVLYLMGLRKRD 238

Db 200 IQFSVVMQGM-----GTSCITMKNDFAH--VFVAVSGFLFEGGPMATACVLYLVILGVKLKRS 253  
QY 239 ESLEA---NKAVANTHRPRKSKTKMLFVLVFAICWTPFHVDRLFFSF-----VEEM 289  
Db 254 RLQALPRCYDNRGISAQTVIRMLVAVAVAFICWAPFHAQRLMAVYGSTGIESOW 313  
QY 290 TESLAAVNLHVSGVFYLSAVNPITYNLLSRFRFAFR 331  
Db 314 FND---VFSILDYTSGLVFLSTCINPLLYNIMSHKREAFK 352

RESULT 12  
US-10-270-333-192  
; Sequence 192, Application US/10270333  
; Publication No. US20030092124A1  
; GENERAL INFORMATION:  
; APPLICANT: Cravchik, Anibal  
; TITLE OF INVENTION: ISOLATED G-PROTEIN COUPLED RECEPTORS,  
; TITLE OF INVENTION: NUCLEIC ACID MOLECULES ENCODING GPCR PROTEINS, AND USES  
; FILE OF INVENTION: THEREOF AS INSECTICIDAL TARGETS  
; FILE REFERENCE: CL000733CON  
; CURRENT APPLICATION NUMBER: US/10/270,333  
; CURRENT FILING DATE: 2002-10-15  
; PRIOR APPLICATION NUMBER: 60/168,677  
; PRIOR FILING DATE: 1999-12-03  
; PRIOR APPLICATION NUMBER: 60/175,691  
; PRIOR FILING DATE: 2000-01-12  
; PRIOR APPLICATION NUMBER: 60/191,638  
; PRIOR FILING DATE: 2000-03-23  
; NUMBER OF SEQ ID NOS: 198  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 192  
; LENGTH: 660  
; TYPE: PRT  
; ORGANISM: Drosophila  
US-10-270-333-192

Query Match 25.3%; Score 525.5; DB 15; Length 660;  
Best Local Similarity 29.7%; Pred. No. 1.7e-38;  
Matches 127; Conservative 74; Mismatches 153; Indels 73; Gaps 9;

QY 18 LNSTEYLAHLCG-----PKRSDLSL--PVSVAYALIFLVGMGNLVCVY 61  
Db 72 LNTITENSLGSGTNGTNAADSPVDESILTTLTALTVCYALIFVAGVLGNLTICIV 131  
QY 62 IVRHQTLKPTNYLYFSLAVSDLLVLLCMPLIEYEMWNYFELGCPVCYKTFETV 121  
Db 132 ISRNPMHTATNFIENLAVSDLLVSGIPQELYNLWYPMYPTDAMCIMGVLSMA 191  
QY 122 CFASILSVTVSVERYVAIVHPFRAKLESTRRALRILSLVWSFSVFLPNTSIHGKIF 181  
Db 192 ANATVLTITAFVRYIAICHPROHTMSKLSRAKFEIAILWLAFLALPQMQFSVY 251  
QY 182 QHPFGSSVPGSATCTVTTRKPMVYNIQATSFYLPMTLISVLYLMGLRLKRD--- 238  
Db 252 QN--EGYS-----CTMENDFAH--VFVAVSGFLFEGGPMATACVLYLVILGVKLKRSLL 301  
QY 239 ESLEANKAVNTHRSRKSQVTKMLFVLVFAICWTPFHVDRLFFSF-----VEWTES 292  
Db 302 QSLPRTFDANRGLNAQGVIRMLVAVAVAFICWAPFHAQRLMAVYGLNINIGISRDA 361  
QY 293 LAAVNLIHWGSGVFYLSAVNPITYNLLSRFRFAFRNVSPTCKWCHPRRPOG--- 349  
Db 362 FNDYFRILDYTSGLVFLSTCINPLLYNIMSHKREAFKITLTROFGLARNHHQSOHH 421  
QY 350 -----PPAQKIFLFECHLVETEDAGPQFPQGSII 380  
Db 422 QHNSALLRQNSMRLOPASCNVNNALPEYGSYRVQPRC-----RDANHQLSLQDSI 475  
QY 381 HNTNLT 387  
Db 476 RTTITTT 482

## RESULT 13

US-10-225-567A-207  
; Sequence 207, Application US/10225567A  
; Publication No. US20030113798A1  
; GENERAL INFORMATION:  
; APPLICANT: LifeSpan Biosciences  
; APPLICANT: Brown, Joseph P.  
; APPLICANT: Burmer, Glenna C.  
; APPLICANT: Roush, Christine L.  
; TITLE OF INVENTION: ANTIGENIC PEPTIDES AND ANTIBODIES FOR G PROTEIN-COUPLED RECEPT  
; FILE REFERENCE: 1920-4-4  
; CURRENT APPLICATION NUMBER: US/10/225,567A  
; CURRENT FILING DATE: 2001-12-19  
; PRIOR APPLICATION NUMBER: 60/257,144  
; PRIOR FILING DATE: 2000-12-19  
; NUMBER OF SEQ ID NOS: 2292  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 207  
; LENGTH: 418  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-225-567A-207

Query Match 24.0%; Score 499; DB 15; Length 418;  
Best Local Similarity 33.0%; Pred. No. 2.2e-36;  
Matches 116; Conservative 65; Mismatches 103; Indels 68; Gaps 12;

QY 40 VSVAYALIFLVGMGNLVCVIVRH---OTLTPNYLYFSLAVSDLLVLLCMPLIEY 96  
Db 66 VTAVYALAFVVGTVGTNTVTAFTLARKKSLQSLQSTVYHGLSLALSDLLTLLAMPVELY 125  
QY 97 E-MWNYPELFGPVGC---YFKTALPETVCFASILSVTVSVERYVAIVHPFRAKLESTR 152  
Db 126 NFIWVHPWAFDAGCRGYF---LRDACTATALNVAISLVERYLAICHPKAKTLMRS 192  
QY 153 RRALRILSLVWSFSVVSFLP-----NTSIHGKIFQHPNGSSVPGSATCTVTTRPMVY 204  
Db 183 SRTKRFISAILWASALLTVPLMTNGEQNSADG---QH-----AGGLVCTPTTHTAT 232  
QY 205 YNLITQATSFYLPMTLISVLYLMGLRLKRDSELEANKVAVNTHR----- 252  
Db 233 VKVVIQVNTFMSPFIPMVVISVL-----NTIANKLTVMVYRQAAEQGVCTVGG 281  
QY 253 -----PSR-----KSVTKMLFVLVFAICWTPFHVDRLFFSFV--EEMTESLAAY 296  
Db 282 EHSFTSMATEPGRVQALRHGVRVLRVAVIAFVVCWLPYHVRRLMFCYISDEQWTPFLYDF 341  
QY 297 FNLHVSGVFYLSAVNPITYNLLSRFRFAFRNVSPTCK-WCHPRRHP 347  
Db 342 YHYFVMTNALFVVSSTINPILYNLVSANFRHIFLATLACLCPVWRRRRKP 393

## RESULT 14

US-10-225-567A-473  
; Sequence 473, Application US/10225567A  
; Publication No. US20030113798A1  
; GENERAL INFORMATION:  
; APPLICANT: LifeSpan Biosciences  
; APPLICANT: Brown, Joseph P.  
; APPLICANT: Burmer, Glenna C.  
; APPLICANT: Roush, Christine L.  
; TITLE OF INVENTION: ANTIGENIC PEPTIDES AND ANTIBODIES FOR G PROTEIN-COUPLED RECEPT  
; FILE REFERENCE: 1920-4-4  
; CURRENT APPLICATION NUMBER: US/10/225,567A  
; CURRENT FILING DATE: 2001-12-19  
; PRIOR APPLICATION NUMBER: 60/257,144  
; PRIOR FILING DATE: 2000-12-19  
; NUMBER OF SEQ ID NOS: 2292  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 473  
; LENGTH: 412



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GenCore version 5.1.6  
Copyright (c) 1993 - 2003 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: August 22, 2003, 19:07:13 : Search time 23.5679 Seconds  
(without alignments)  
2323.674 Million cell updates/sec

Title: US-09-609-146-4  
Perfect score: 2185  
Sequence: 1 MSGMEKIQNASWIYQOKLED.....ALSSEQMSRTNYQSFHNKT 415

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 497079 seqs, 131961718 residues  
Total number of hits satisfying chosen parameters: 497079

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Published Applications AA: \*  
1: /cgn2\_6/ptodata/1/pubpaa/US07\_PUBCOMB.pep.\*  
2: /cgn2\_6/ptodata/1/pubpaa/PCT\_NEW\_PUB.pep.\*  
3: /cgn2\_6/ptodata/1/pubpaa/US06\_NEW\_PUB.pep.\*  
4: /cgn2\_6/ptodata/1/pubpaa/US06\_PUBCOMB.pep.\*  
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10: /cgn2\_6/ptodata/1/pubpaa/US09B\_PUBCOMB.pep.\*  
11: /cgn2\_6/ptodata/1/pubpaa/US09C\_PUBCOMB.pep.\*  
12: /cgn2\_6/ptodata/1/pubpaa/US09\_NEW\_PUB.pep.\*  
13: /cgn2\_6/ptodata/1/pubpaa/US10A\_PUBCOMB.pep.\*  
14: /cgn2\_6/ptodata/1/pubpaa/US10B\_PUBCOMB.pep.\*  
15: /cgn2\_6/ptodata/1/pubpaa/US10C\_PUBCOMB.pep.\*  
16: /cgn2\_6/ptodata/1/pubpaa/US10\_NEW\_PUB.pep.\*  
17: /cgn2\_6/ptodata/1/pubpaa/US60\_NEW\_PUB.pep.\*  
18: /cgn2\_6/ptodata/1/pubpaa/US60\_PUBCOMB.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	2185	100.0	415	12	US-10-272-983-12
2	2170	99.3	412	15	US-10-225-567A-557
3	1251	57.3	249	11	US-09-782-974C-18
4	942	43.1	403	15	US-10-251-385-114
5	942	43.1	403	15	US-10-251-385-224
6	942	43.1	403	15	US-10-225-567A-540
7	942	43.1	403	15	US-10-290-078-18
8	552.5	25.3	419	9	US-09-804-551B-26
9	552.5	25.3	428	15	US-10-270-333-114
10	515	23.6	595	12	US-10-314-076-17
11	515	23.6	595	15	US-10-270-333-195
12	437.5	22.8	660	15	US-10-270-333-192
13	476	21.8	412	15	US-10-225-567A-473
14	476	21.8	412	15	US-10-290-078-15
15	471	21.6	418	15	US-10-225-567A-207

16	447	20.5	366	15	US-10-251-385-210
17	444	20.3	366	15	US-10-251-385-88
18	410	18.8	416	12	US-10-205-219-21
19	405.5	18.6	398	15	US-10-225-567A-326
20	398	18.2	410	15	US-10-225-567A-432
21	393	18.0	411	15	US-10-253-983-2
22	365	16.7	369	11	US-09-964-923A-23
23	365	16.7	369	15	US-10-225-567A-314
24	365	16.7	383	10	US-09-966-871-87
25	365	16.7	383	14	US-10-039-645-87
26	363	16.6	433	9	US-09-825-294-209
27	363	16.6	453	10	US-09-970-966-209
28	363	16.6	453	15	US-10-097-340-119
29	363	16.6	453	15	US-10-225-567A-364
30	363	16.6	453	16	US-10-212-677-209
31	360	16.5	416	15	US-10-185-083-52
32	360	16.5	416	15	US-10-194-595-52
33	360	16.5	438	9	US-09-761-962-17
34	360	16.5	438	15	US-10-283-300-17
35	359.5	16.5	369	11	US-09-964-923A-22
36	359	16.4	368	11	US-09-964-923A-21
37	358.5	16.4	412	15	US-10-080-917-11
38	358.5	16.4	414	15	US-10-080-917-9
39	358.5	16.4	476	15	US-10-080-917-7
40	358	16.4	369	9	US-09-823-114-9
41	358	16.4	369	11	US-09-964-923A-20
42	358	16.4	369	15	US-10-290-748-9
43	358	16.4	400	15	US-10-225-567A-186
44	358	16.4	415	9	US-09-823-114-20
45	358	16.4	415	15	US-10-290-748-20

ALIGNMENTS

RESULT 1  
US-10-272-983-12  
Sequence 12, Application US/10272983  
Publication No. US20030148450A1  
GENERAL INFORMATION:  
APPLICANT: Chen, Ruoping  
APPLICANT: Dang, Huong T.  
APPLICANT: Liaw, Chen W.  
APPLICANT: Lin, I-Lin  
TITLE OF INVENTION: Human Orphan G Protein Coupled Receptors  
FILE REFERENCE: AREN0050  
CURRENT APPLICATION NUMBER: US/10/272,983  
PRIOR FILING DATE: 2002-10-17  
PRIOR APPLICATION NUMBER: US/09/417,044  
PRIOR FILING DATE: 1999-10-12  
PRIOR APPLICATION NUMBER: 60/109,213  
PRIOR FILING DATE: 1998-11-20  
PRIOR APPLICATION NUMBER: 60/120,416  
PRIOR FILING DATE: 1999-02-16  
PRIOR APPLICATION NUMBER: 60/121,851  
PRIOR FILING DATE: 1999-02-26  
PRIOR APPLICATION NUMBER: 60/123,946  
PRIOR FILING DATE: 1999-03-12  
PRIOR APPLICATION NUMBER: 60/123,949  
PRIOR FILING DATE: 1999-03-12  
PRIOR APPLICATION NUMBER: 60/136,436  
PRIOR FILING DATE: 1999-05-28  
PRIOR APPLICATION NUMBER: 60/136,437  
PRIOR FILING DATE: 1999-05-28  
PRIOR APPLICATION NUMBER: 60/136,439  
PRIOR FILING DATE: 1999-05-28  
PRIOR APPLICATION NUMBER: 60/136,567  
PRIOR FILING DATE: 1999-05-28  
Remaining Prior Application data removed - See File Wrapper or PALM.  
NUMBER OF SEQ ID NOS: 74  
SOFTWARE: PatentIn Ver. 2.1  
SEQ ID NO 12  
LENGTH: 415

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; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-272-983-12

Query Match      100.0%; Score 2185; DB 12; Length 415;
Best Local Similarity 100.0%; Pred. No. 1.6e-186;
Matches 415; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MSGMEKLNASWYQOKLEDPOKHLNSTEYLAFLCGPRRSHFFLPVSVVYPIFVVG 60
DB 1 MSGMEKLNASWYQOKLEDPOKHLNSTEYLAFLCGPRRSHFFLPVSVVYPIFVVG 60
QY 61 GNVLVCLVILQHOAMKTPNTNYLFLAVSDLLVLLGMPLEVEYEMRNYPFLFGVGCY 120
DB 61 GNVLVCLVILQHOAMKTPNTNYLFLAVSDLLVLLGMPLEVEYEMRNYPFLFGVGCY 120
QY 121 FKTALETVCFASILSITTVSVERVYAILHPFRKALQSTRRRALRILGIVGWGFSVLSLP 180
DB 121 FKTALETVCFASILSITTVSVERVYAILHPFRKALQSTRRRALRILGIVGWGFSVLSLP 180
QY 181 NTSIHGKFRHPNGSLVPGSATCTVIKPMWIYNTFIQVTSFLFYLLPMTVISLVLYLMA 240
DB 181 NTSIHGKFRHPNGSLVPGSATCTVIKPMWIYNTFIQVTSFLFYLLPMTVISLVLYLMA 240
QY 241 LRLKDKSLEADDEGNANIQRCKSVNKMFLVFLVFAICWAPPHIDRLFFSFVEEWS 300
DB 241 LRLKDKSLEADDEGNANIQRCKSVNKMFLVFLVFAICWAPPHIDRLFFSFVEEWS 300
QY 301 LAAVFNLVHVSGVFFYLSSAVNPIIYNLLSRFQAQFQVNISSFKHQSQHDPPA 360
DB 301 LAAVFNLVHVSGVFFYLSSAVNPIIYNLLSRFQAQFQVNISSFKHQSQHDPPA 360
QY 361 QRNIFTECHFVELTEDIGQPFCOSSMHNHSLPTALSSEQMSRTNYQSFHNKT 415
DB 361 QRNIFTECHFVELTEDIGQPFCOSSMHNHSLPTALSSEQMSRTNYQSFHNKT 415

RESULT 2
US-10-225-567A-557
; Sequence 557, Application US/10225567A
; Publication No. US20030113798A1
; GENERAL INFORMATION:
; APPLICANT: LifeSpan Biosciences
; APPLICANT: Brown, Joseph P.
; APPLICANT: Burmer, Glenna C.
; APPLICANT: Roush, Christine L.
; TITLE OF INVENTION: ANTIGENIC PEPTIDES AND ANTIBODIES FOR G PROTEIN-COUPLED RECEPTORS
; FILE REFERENCE: 1920-4-4
; CURRENT APPLICATION NUMBER: US/10/225,567A
; CURRENT FILING DATE: 2001-12-19
; PRIOR APPLICATION NUMBER: 60/257,144
; PRIOR FILING DATE: 2000-12-19
; NUMBER OF SEQ ID NOS: 2292
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 557
; LENGTH: 412
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-225-567A-557

Query Match      99.3%; Score 2170; DB 15; Length 412;
Best Local Similarity 100.0%; Pred. No. 3.4e-185;
Matches 412; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 4 MEKLNASWYQOKLEDPOKHLNSTEYLAFLCGPRRSHFFLPVSVVYPIFVVGIGN 63
DB 1 MEKLNASWYQOKLEDPOKHLNSTEYLAFLCGPRRSHFFLPVSVVYPIFVVGIGN 60
QY 64 VLVCLVILQHOAMKTPNTNYLFLAVSDLLVLLGMPLEVEYEMRNYPFLFGVGCY 123
DB 61 VLVCLVILQHOAMKTPNTNYLFLAVSDLLVLLGMPLEVEYEMRNYPFLFGVGCY 120
QY 124 ALFETVCFASILSITTVSVERVYAILHPFRKALQSTRRRALRILGIVGWGFSVLSLPNTS 183
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; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-782-974C-18

Query Match      57.3%; Score 1251; DB 11; Length 249;
Best Local Similarity 98.8%; Pred. No. 1.3e-103;
Matches 239; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 2 SGMEKLNASWYQOKLEDPOKHLNSTEYLAFLCGPRRSHFFLPVSVVYPIFVVGVI 61
DB 1 SGMEKLNASWYQOKLEDPOKHLNSTEYLAFLCGPRRSHFFLPVSVVYPIFVVGVI 60
QY 62 GNVLVCLVILQHOAMKTPNTNYLFLAVSDLLVLLGMPLEVEYEMRNYPFLFGVGCY 121
DB 61 GNVLVCLVILQHOAMKTPNTNYLFLAVSDLLVLLGMPLEVEYEMRNYPFLFGVGCY 120

RESULT 3
US-09-782-974C-18
; Sequence 18, Application US/09782974C
; Publication No. US20030082534A1
; GENERAL INFORMATION:
; APPLICANT: Vogell, Gabriel
; APPLICANT: Lind, Peter
; APPLICANT: Wood, Linda S.
; APPLICANT: Parodi, Luis A.
; TITLE OF INVENTION: No. US20030082534A1 G Protein Coupled Receptor
; FILE REFERENCE: 411USPHRM311
; CURRENT APPLICATION NUMBER: US/09/782,974C
; CURRENT FILING DATE: 2002-09-04
; PRIOR APPLICATION NUMBER: 60/165,838
; PRIOR FILING DATE: 1999-11-16
; PRIOR APPLICATION NUMBER: 09/714,449
; PRIOR FILING DATE: 2000-11-16
; PRIOR APPLICATION NUMBER: 60/198,568
; PRIOR FILING DATE: 2000-04-20
; PRIOR APPLICATION NUMBER: 60/166,071
; PRIOR FILING DATE: 1999-11-17
; PRIOR APPLICATION NUMBER: 60/166,678
; PRIOR FILING DATE: 1999-11-19
; PRIOR APPLICATION NUMBER: 60/173,396
; PRIOR FILING DATE: 1999-12-28
; PRIOR APPLICATION NUMBER: 60/184,129
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: 60/185,421
; PRIOR FILING DATE: 2000-02-28
; PRIOR APPLICATION NUMBER: 60/185,554
; PRIOR FILING DATE: 2000-02-28
; PRIOR APPLICATION NUMBER: 60/186,530
; PRIOR FILING DATE: 2000-03-02
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 192
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 18
; LENGTH: 249
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-782-974C-18
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Qy	122	KTALFETVCFASILSITTSVERVYAILHPRAKLQSTRRRALRILGIWGFVSFLSN	181
Db	121	KTALFETVCFASILSITTSVERVYAILHPRAKLQSTRRRALRILGIWGFVSFLSN	180
Qy	182	TSTHGKHFHPNGSLVPGSATCTVIKPMWIYNFIQVTSFLFYLLPMTVISLVYYLMAL	241
Db	181	TSTHGKHFHPNGSLVPGSATCTVIKPMWIYNFIQVTSFLFYLLPMTVISLVYYLMAL	240
Qy	242	RL 243	
		-	
Db	241	RV 242	

RESULT 4  
US-10-251-385-114  
; Sequence 114, Application US/10251385  
; Publication No. US20030105292A1  
; GENERAL INFORMATION:  
; APPLICANT: Behan, Dominic P.  
; APPLICANT: Chalmers, Derek T.  
; APPLICANT: Liaw, Chen W.  
; TITLE OF INVENTION: No. US20030105292A1-Endogenous, Constitutively Activated Human G  
; TITLE OF INVENTION: Protein-Coupled  
; TITLE OF INVENTION: Receptors  
; FILE REFERENCE: AREN-0040  
; CURRENT APPLICATION NUMBER: US/10/251.385  
; CURRENT FILING DATE: 2002-09-20  
; PRIOR APPLICATION NUMBER: US/09/170,496  
; PRIOR FILING DATE: 1998-10-13  
; NUMBER OF SEQ ID NOS: 294  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 114  
; LENGTH: 403  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-251-385-114

Query Match	43.1%	Score 942;	DB 15;	Length 403;
Best Local Similarity	50.8%;	Pred. No. 8.le-76;		
Matches	180;	Conservative 63;	Mismatches 89;	Indels 22; Gaps 6;
Qy	20	DPFOKHLNSTEEXLAF-LCGPRRSHFFLPVSVVVPVVFVGVICNVLVCLVILQHOAMKT	78	
Db	13	DP--EDUNLDEALURKYLGPQOFELEMPICATYLLIFGVGAVNGLTCLVILRHKKAMRT	70	
Qy	79	PTYNLFSLAVSDLLVLLGMPLEVEYEMWRNYPFLGPGVCYFKTALFTFCFASILSIT	138	
Db	71	PTYNLFSLAVSDLLVLLVGLPELEYEMWHPYLLGVGGCYFPTLLFEMVCLASVLNVT	130	
Qy	139	TVSVERVAILHPHPRAKLQSTRRRALRILGIWVGFSVLFSLPNTSIHGIKPHYEPNGSLV	198	
Db	131	ALSVERYVAVVHPLOQRSMTVRAHVRVVLGAVMGLAMLCSLPNTSLHGIRQLHVHVPGRGPV	190	
Qy	199	PGSATCIVIKPMWLYNFIQVTSFLFYLLPMTFVLSVLYLWALRLKKDKDSLEADGN---	255	
Db	191	PDSAVCMVLRPRALYNMVQTTALLFCFLPMATNSVLYLTGLRLRRLLLMQEAQKRG	250	
Qy	256	---ANIQRPC-----RKSVMKMLFVLVFAICWAPHIDRLFFTSFVEWSESLLAAV	304	
Db	251	SAARSRYTCRLOQHDGRGROVTKMLFVLVVVFGICWAPHADRVMSVVSQWTDGLHLA	310	
Qy	305	FNLVHVVSQVGFYLLSSAVNPYIYNLLSRRFQAQFNVI---SSPH--KQWHSQH	353	
Db	311	FOHVHVISGIFYLGSAAHPVLSMSRRRETOEALCLCACCHRLRPPRHSSH	364	

; APPLICANT: Chalmers, Derek T.  
 ; APPLICANT: Liaw, Chen W.  
 ; TITLE OF INVENTION: NO. US20030105292A1-Endogenous, Constitutively Activated Human  
 ; TITLE OF INVENTION: Protein-Coupled  
 ; TITLE OF INVENTION: Receptors  
 ; FILE REFERENCE: AREN-0040  
 ; CURRENT APPLICATION NUMBER: US/10/251,385  
 ; CURRENT FILING DATE: 2002-09-20  
 ; PRIOR APPLICATION NUMBER: US/09/170,496  
 ; PRIOR FILING DATE: 1998-10-13  
 ; NUMBER OF SEQ ID NOS: 294  
 ; SOFTWARE: PatentIn version 3.1  
 ; SEQ ID NO 224  
 ; LENGTH: 403  
 ; TYPE: PRT  
 ; ORGANISM: Homo sapiens  
 ; US-10-251-385-224

Query Match	43.1%	Score 942;	DB 15;	Length 403;
Best Local Similarity	50.8%;	Pred. No. 8.le-76;		
Matches	180;	Conservative 63;	Mismatches 89;	Indels 22; Gaps 6
Qy	20	DPFOKHLNSTEYLAE-LCGPRRSHFFLPVSVVYPIEVGVIGNVLCVLTLOHQAMKT	78	
Db	13	DP--EDNLNLTDEALRLKYLGPQQTELEFMPICATYLLIFVGAVGNGLTCLVLTIRHKAMKT	70	
Qy	79	PTNYLFESLAVSDLLVLLGMPLEVYEMNRNYPFLFGVGVCFKTAFTALPETVCFASILTST	138	
Db	71	PTNYLFESLAVSDLLVLLVGLPLELYEMHHNYPFLGVGVCYFRTLLEFMVCLASLVNVT	130	
Qy	139	TVSVERYVAIHPHPRAKLQSTRRALRLIGLIVMGFSVLFSLPNTSIHGKIKHYFPNGSLV	198	
Db	131	ALSERYVAVVHPLOARSMVTRAHVRRVLGAVGWGLAMLCSLPNTSLHGIRQLHVLPCRGPV	190	
Qy	199	PGSATCIVIKPMWYINFTIQVTSFLFYLLPMTVTSVLYYLNALRLKKDKSLAEADGN---	255	
Db	191	POSACVMLVRPRALYNMVVQTTALLFCFLPMAINSVLYLLGLRLRRLRLLMQBAKRG	250	
Qy	256	---ANIQRPC-----RKSVNKMFLVLVLVFAICWAPFHIDRFLFVFEVSESLAAV	304	
Db	251	SAAARSRYTCRLQHDRCRRQVKMLFVLLVVVFGICWAPFHADRVNWSVQWTOGLHLA	310	
Qy	305	FNLVHVSVGFYFLSSAVNPYIYNLLSRRFQAAFNQV---SSFH--KOWHSQH	353	
Db	311	FOHVHVTSGITPYFGSAANPLYLSLMSRRFRETFOEALCLGACCCURLRPRSSH	364	

Query Match 43.1%; Score 942; DB 15; Length 403;  
Best Local Similarity 50.8%; Pred. No. 8.1e-76;  
Matches 180; Conservative 63; Mismatches 89; Indel's 2

[illegible]

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RESULT 7
US-10-290-078-18
; Sequence 18, Application US10290078
; Publication No. US20030124596A1
; GENERAL INFORMATION:
; APPLICANT: Carroll, Joseph A.
; TITLE OF INVENTION: Methods and Compositions for Treating
; TITLE OF INVENTION: Hematological Disorders Using 232, 2059, 10630, 13848, 13875,
; FILE OF INVENTION: 14395, 14618, 17692 or 58874
; FILE REFERENCE: MPI2001-288P1(N)
; CURRENT APPLICATION NUMBER: US/10/290,078
; CURRENT FILING DATE: 2002-11-07
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 18
; LENGTH: 403
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-290-078-18

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RESULT 8  
US-09-804-551B-26  
; Sequence 26, Application US/09804551B  
; Patent No. US20020056151A1  
; GENERAL INFORMATION:  
; APPLICANT: Bayer Aktiengesellschaft  
; TITLE OF INVENTION: Receptors for peptides from insects  
; FILE REFERENCE: Le A 34 394  
; CURRENT APPLICATION NUMBER: US/09/804,551B  
; CURRENT FILING DATE: 2001-03-12  
; PRIOR APPLICATION NUMBER: DE 100 13 618.4  
; PRIOR FILING DATE: 2000-03-18  
; NUMBER OF SEQ ID NOS: 92  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 26  
; LENGTH: 419  
; TYPE: PRT  
; ORGANISM: Drosophila melanogaster  
US-09-804-551B-26

```

RESULT 9
US-10-270-333-114
; Sequence 114, Application US/10270333
; Publication No. US20030092124A1
; GENERAL INFORMATION:
; APPLICANT: Cravchik, Anibal
; TITLE OF INVENTION: ISOLATED G-PROTEIN COUPLED RECEPTORS.
; TITLE OF INVENTION: NUCLEIC ACID MOLECULES ENCODING GPCR PROTEINS, AND USES
; TITLE OF INVENTION: THEREOF AS INSECTICIDAL TARGETS
; FILE REFERENCE: CL000733CON
; CURRENT APPLICATION NUMBER: US/10/270,333
; CURRENT FILING DATE: 2002-10-15
; PRIOR APPLICATION NUMBER: 60/168,677
; PRIOR FILING DATE: 1999-12-03
; PRIOR APPLICATION NUMBER: 60/175,691
; PRIOR FILING DATE: 2000-01-12
; PRIOR APPLICATION NUMBER: 60/191,638
; PRIOR FILING DATE: 2000-03-23

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; NUMBER OF SEQ ID NOS: 198
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 114
; LENGTH: 428
; TYPE: PRT
; ORGANISM: Drosophila
US-10-270-333-114

Query Match      25.3%; Score 552.5; DB 15; Length 428;
Best Local Similarity 33.2%; Pred. No. 4.3e-41;
Matches 121; Conservative 73; Mismatches 98; Indels 73; Gaps 7;

Qy 38 GPRRS--HFLPVSVVVTVFVGVGIVGNVLVCLVILQHOAKMPTNYLFLSLAVSDLLVL 95
Db 11 GPRDPLAIVPTVTVVSLIFITGVGNGISTCIVIKKNSMHTATNYLFLSLAIDPLLL 70
Qy 96 LIGMPLEVEMWRYNPLFGVGCYFKTALFETVCFASILSITTVSVERVAILHPFRK 155
Db 71 LSGVPQEVSWSKYPVFGYICIGRLAETSANATVLTITFTVERVIAICHPLGQ 130
Qy 156 LQSTRRALRILGIVMGFSVLSFNPSTSIHGKIFHYPPNGSLVPGSATCTVIRKPMWYIN 215
Db 131 AMSKLSRAIRIIVLWMAIVTAIPQAQFGE-HY-----SGVEQCQIVRVVYKHSF 182
Qy 216 IIQVTSFLYLLPMTVTSVLYLMLRKKDKSLEADGNANTORPC----- 263
Db 183 --QLSTFIFFLAPMSIILVLYLLIGVHLRSTLV---EGPASVARRQOLKSVPSDTILYR 237
Qy 264 -----KSNKMLFVLVFAICW 281
Db 238 YGGSGTAMSPNGGSGAGTAGLMGGGAQLSSVRGLNHGYTRVRLMLVAVVVCFFLCW 297
Qy 282 APFHIDRLFFSFEWSESL-----AAVFNLVHVVSQVFFYLSSAVNPPIIYNLLSRFOAA 337
Db 298 APFHAQRLIAIYAPARCAKLDRQHEFYVTVVTVSGVLYLSTCINPLNINIMSHKPREA 357
Qy 338 FQNYI 342
Db 358 FKAVL 362

RESULT 10
US-10-314-076-17
; Sequence 17, Application US/10314076
; Publication No. US20030152977A1
; GENERAL INFORMATION:
; APPLICANT: Bristol-Myers Squibb Company
; TITLE OF INVENTION: NOVEL HUMAN G-PROTEIN COUPLED RECEPTOR, HGPBRM34, AND VARIANTS A
; FILE REFERENCE: D0197NP
; CURRENT APPLICATION NUMBER: US/10/314.076
; PRIOR FILING DATE: 2002-12-06
; PRIOR APPLICATION NUMBER: U.S. 60/338,371
; PRIOR FILING DATE: 2001-12-06
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 17
; LENGTH: 595
; TYPE: PRT
; ORGANISM: Drosophila melanogaster
US-10-314-076-17

Query Match      23.6%; Score 515; DB 12; Length 595;
Best Local Similarity 35.6%; Pred. No. 1.4e-37;
Matches 110; Conservative 66; Mismatches 95; Indels 38; Gaps 9;

Qy 48 VSVVYVPFVGVGIVGNVLVCLVILQHOAKMPTNYLFLSLAVSDLLVLLGMPLEVYEMW 107
Db 65 LSVGYALIFIAVLGNLITCIVISRNFMHTATNFYLFNLAIISDMILLCSGMPQDLYNLW 124
Qy 108 R--NYPFLPGVGCYFKTALFETVCFASILSITTVSVERVAILHPFRKQSTRRALR 165
Db 125 HPDNYP--FSDSICILESVLSEAAANATVLTITFTVERVIAICHPPROHTMSKLSRAVK 182
Qy 166 ILGIVMGFSVLSFNPSTSIHGKIFHYPPNGSLVPGSATCTVIRKPMWYINFTIQTVSFLFY 225
Db 183 FIFAIWIAALLALP-----QAIQFVSVMQGM-----GTSCMTKNDFFAH--VFVAVSGGLFF 232
Qy 226 LLPMTVTSVLYLMLRKKDKSLEADGNANTORPC-----RKSVMKMLFVLV 276
Db 233 GGPMTAICVLVILGVKLRSLLOA-----LPRRCYDYNRGISIAQTRVIRMLVAVAVA 286
Qy 277 FATCWAPFHIDRLFFSF-----VEEWSSESLAAVFNLVHVVSQVFFYLSSAVNPPIIYNLL 330
Db 287 FFICWAPFHAQRLMAVYVGTSGIESQWEND---VFSILDYTSGLVLYLSTCINPLNINIM 343
Qy 331 SRFQAAQF 339
Db 344 SHKFREAFK 352

RESULT 11
US-10-270-333-195
; Sequence 195, Application US/10270333
; Publication No. US20030092124A1
; GENERAL INFORMATION:
; APPLICANT: Cravchik, Anibal
; TITLE OF INVENTION: ISOLATED G-PROTEIN COUPLED RECEPTORS,
; TITLE OF INVENTION: NUCLEIC ACID MOLECULES ENCODING GPCR PROTEINS, AND USES
; FILE REFERENCE: CL000733CON
; CURRENT APPLICATION NUMBER: US/10/270.333
; CURRENT FILING DATE: 2002-10-15
; PRIOR APPLICATION NUMBER: 60/168,677
; PRIOR FILING DATE: 1999-12-03
; PRIOR APPLICATION NUMBER: 60/175,691
; PRIOR FILING DATE: 2000-01-12
; PRIOR APPLICATION NUMBER: 60/191,638
; PRIOR FILING DATE: 2000-03-23
; NUMBER OF SEQ ID NOS: 198
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 195
; LENGTH: 595
; TYPE: PRT
; ORGANISM: Drosophila
US-10-270-333-195

Query Match      23.6%; Score 515; DB 15; Length 595;
Best Local Similarity 35.6%; Pred. No. 1.4e-37;
Matches 110; Conservative 66; Mismatches 95; Indels 38; Gaps 9;

Qy 48 VSVVYVPFVGVGIVGNVLVCLVILQHOAKMPTNYLFLSLAVSDLLVLLGMPLEVYEMW 107
Db 65 LSVGYALIFIAVLGNLITCIVISRNFMHTATNFYLFNLAIISDMILLCSGMPQDLYNLW 124
Qy 108 R--NYPFLPGVGCYFKTALFETVCFASILSITTVSVERVAILHPFRKQSTRRALR 165
Db 125 HPDNYP--FSDSICILESVLSEAAANATVLTITFTVERVIAICHPPROHTMSKLSRAVK 182
Qy 166 ILGIVMGFSVLSFNPSTSIHGKIFHYPPNGSLVPGSATCTVIRKPMWYINFTIQTVSFLFY 225
Db 183 FIFAIWIAALLALP-----QAIQFVSVMQGM-----GTSCMTKNDFFAH--VFVAVSGGLFF 232
Qy 226 LLPMTVTSVLYLMLRKKDKSLEADGNANTORPC-----RKSVMKMLFVLV 276
Db 233 GGPMTAICVLVILGVKLRSLLOA-----LPRRCYDYNRGISIAQTRVIRMLVAVAVA 286
Qy 277 FATCWAPFHIDRLFFSF-----VEEWSSESLAAVFNLVHVVSQVFFYLSSAVNPPIIYNLL 330
Db 287 FFICWAPFHAQRLMAVYVGTSGIESQWEND---VFSILDYTSGLVLYLSTCINPLNINIM 343
Qy 331 SRFQAAQF 339
Db 344 SHKFREAFK 352
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Search completed: August 22, 2003, 19:16:07  
Job time : 32.5679 secs

US-10-225-567A-207

Query Match	21.6%	Score	471;	DB 15;	Length	418;			
Best Local Similarity	31.0%;	Pred. No.	7.6e-34;						
Matches	120;	Conservative	7%;	Mismatches	121;	Indels	74;	Gaps	14;

  

Qy	20	DPFQKHLNSTEYV	-----	-AFLGPRRS-	-----	HPFLPVSVVYVPLFVV	58	
		:				:	:	
Db	17	DPFQRAQAGLEEL	ALLAPFGNAGSNASERYLAAP	SSSELDVNTDIYSKLVATVYLA	LFVV	76		
Qy	59	GVIGNVLCVLIQH	---QAMKPTNYVFLSV	LDLLVLLIGLMPLEVYE-MRNRN	PFLF	114		
		:	:	:	:	:	:	
Db	77	GTGVNTVTAETL	ARKSLQSLQSVTHLGLSL	SLDULTLLAMPVLEYNFIWVH	HPWAF	136		
Qy	115	GPVGC---	YKFTALFETVCFASIL	ITTSVERVYVAILHPFR	AKLOTRRRALRILGV	171		
		:	:	:	:	:	:	
Db	137	GDACRGYYF-	--LRDACTATALNVAS	LVERYLAICHFPKAKTLM	SRSTKKFISAIW	193		
Qy	172	GFSVLFSLP	-----	NTSIGHKIFHPNGSLV	--PGSATCTVVKPMIYNFI	IQVTS	221	
		:	:	:	:	:	:	
Db	194	LASALLTVPLMT	GEQNRSDGQH	-----	AGGLVCTPTTHTATV	-----	KVVIQVNT	241
Qy	222	FLFYLPMTVISV	LYIMLRLLKDKSL	EADEN	-----	ANIQRPCR	264	
		:	:	:	:	:	:	
Db	242	FMSEIFPMYVIL	NTIANKLVMVRQAQ	EQGVCTVGGEHSTF	SMAIPGRVQ-ALRH	300		

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OM protein - protein search, using sw model

Run on: August 22, 2003, 18:59:27 ; Search time 15.3704 Seconds  
(without alignments)  
1142.393 Million cell updates/sec

Title: us-09-609-146-4

Perfect score: 2185

Sequence: 1 MSGMEKLQNASWIYQOKLED.....ALSSEQMRTNYQSFHFNKT 415

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 328717 seqs, 42310858 residues

Total number of hits satisfying chosen parameters: 328717

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

- Issued\_Patents\_AA:\*
- 1: /cgn2\_6/ptodata/1/iaa/5A\_COMB.pep.\*
  - 2: /cgn2\_6/ptodata/1/iaa/5B\_COMB.pep.\*
  - 3: /cgn2\_6/ptodata/1/iaa/6A\_COMB.pep.\*
  - 4: /cgn2\_6/ptodata/1/iaa/6B\_COMB.pep.\*
  - 5: /cgn2\_6/ptodata/1/iaa/PCRU5\_COMB.pep.\*
  - 6: /cgn2\_6/ptodata/1/iaa/backfiles1.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	2162	98.9	415	4	US-09-545-944-2
2	942	43.1	403	4	US-09-170-4960-114
3	942	43.1	403	4	US-09-170-4960-224
4	448	20.5	353	3	US-09-077-675A-3
5	448	20.5	353	4	US-09-077-674-3
6	447	20.5	366	4	US-09-170-4960-210
7	444	20.3	361	3	US-09-077-675A-8
8	444	20.3	361	4	US-09-077-674-8
9	444	20.3	366	3	US-09-077-675A-13
10	444	20.3	366	4	US-09-077-674-13
11	444	20.3	366	4	US-09-170-4960-88
12	436.5	20.0	364	3	US-09-077-675A-16
13	436.5	20.0	364	4	US-09-077-674-16
14	417.5	19.1	353	1	US-08-118-270-45
15	417.5	19.1	353	5	PCT-US93-08528-45
16	410	18.8	416	3	US-08-858-876A-4
17	410	18.8	416	3	US-09-472-880-4
18	405.5	18.6	398	2	US-08-288-663A-1
19	402	18.4	302	3	US-09-077-675A-2
20	402	18.4	302	4	US-09-077-674-2
21	398	18.2	302	3	US-09-077-675A-7
22	398	18.2	302	4	US-09-077-674-7
23	398	18.2	410	3	US-08-858-663A-2
24	398	18.2	410	3	US-09-472-880-2
25	397	18.2	393	1	US-07-629-1041-3
26	389	17.8	410	4	US-09-200-090-2
27	377.5	17.3	398	2	US-08-288-663A-15

28	369	16.9	424	4	US-09-341-446B-6	Sequence 6, Appl1
29	366	16.8	424	1	US-09-341-446B-8	Sequence 8, Appl1
30	365	16.7	369	1	US-07-816-283-6	Sequence 6, Appl1
31	365	16.7	369	1	US-08-417-103-6	Sequence 6, Appl1
32	365	16.7	369	1	US-08-417-103-16	Sequence 16, Appl1
33	364.5	16.7	391	4	US-09-200-090-4	Sequence 4, Appl1
34	360	16.5	438	4	US-09-761-962A-17	Sequence 17, Appl1
35	358	16.4	369	3	US-08-411-859-3	Sequence 3, Appl1
36	358	16.4	369	3	US-08-387-707-9	Sequence 9, Appl1
37	358	16.4	369	4	US-08-405-271A-9	Sequence 9, Appl1
38	358	16.4	400	4	US-09-351-198-2	Sequence 2, Appl1
39	358	16.4	400	4	US-09-113-426-2	Sequence 2, Appl1
40	358	16.4	415	4	US-08-405-271A-20	Sequence 20, Appl1
41	357	16.3	398	4	US-09-761-962A-29	Sequence 29, Appl1
42	357	16.3	400	3	US-08-188-275A-2	Sequence 2, Appl1
43	356.5	16.3	319	3	US-08-832-399-2	Sequence 2, Appl1
44	356.5	16.3	319	3	US-09-372-498-2	Sequence 2, Appl1
45	356.5	16.3	352	4	US-09-029-027B-2	Sequence 2, Appl1

ALIGNMENTS

RESULT 1  
US-09-545-944-2  
; Sequence 2, Application US/09545944  
; Patent No. 6461836  
; GENERAL INFORMATION:  
; APPLICANT: AMES, ROBERT  
; APPLICANT: ELSHOURBAGY, NABIL  
; APPLICANT: MICHALOVICH, DAVID  
; APPLICANT: SARAU, HENRY  
; APPLICANT: SHABON, USMAN  
; APPLICANT: VAWTER, LISA  
; TITLE OF INVENTION: MOLECULAR CLONING OF A 7TM RECEPTOR  
; FILE REFERENCE: (AXOR34) AND SCREENING METHODS THEREOF  
; CURRENT APPLICATION NUMBER: US/09/545,944  
; CURRENT FILING DATE: 2000-04-10  
; PRIOR APPLICATION NUMBER: US 09/435,384  
; PRIOR FILING DATE: 1999-11-05  
; NUMBER OF SEQ ID NOS: 5  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 2  
; LENGTH: 415  
; TYPE: PRT  
; ORGANISM: HOMO SAPIENS  
US-09-545-944-2

Query Match	98.9%	Score	2162	DB	4	Length	415
Best Local Similarity	99.0%	Pred. No.	7.4e-195				
Matches	411	Conservative	2	Mismatches	2	Indels	0
Gaps	0						
Qy	1	MSGMEKLQNASWIYQOKLEDPFQKHLNSTEYLAFLCGPRSHFELPVSVVYVPIFVGV	60				
Db	1	MSGMEKLQNASWIYQOKLEDPFQKHLNSTEYLAFLCGPRSHFELPVSVVYVPIFVGV	60				
Qy	61	IGNVLVCLVILQHOAMKTPNYLFLSLAVSDLLVLLCMPLVEYEMRNYPFLFGPVGCY	120				
Db	61	IGNVLVCLVILQHOAMKTPNYLFLSLAVSDLLVLLCMPLVEYEMRNYPFLFGPVGCY	120				
Qy	121	FKTALFTVCFASITLSTTVSVERYAILHPFRAKLOSTRRRALRILGIWGFVSLP	180				
Db	121	FKTALFTVCFASITLSTTVSVERYAILHPFRAKLOSTRRRALRILGIWGFVSLP	180				
Qy	181	NTSHGKLFKHFYFPGNSLVPGSATCTVIKPMIYFIQVTSFLVLLPMTVISLYLYMA	240				
Db	181	NTSHGKLFKHFYFPGNSLVPGSATCTVIKPMIYFIQVTSFLVLLPMTVISLYLYMA	240				
Qy	241	LRLKKDSLEADEGNANIQRCKRSVKNMFLVFLVFAICWAPFHIDRLFFSFVEENSES	300				
Db	241	LRLKKDSLEADEGNANIQRCKRSVKNMFLVFLVFAICWAPFHIDRLFFSFVEENSES	300				

QY 301 LAAVFNLVHVYGVFFYLSSAVNPITYNLLSRFQAFQNVVIFVGVGNVLCVILVILQHQAMKT 360  
Db 301 LAAVFNLVHVYGVFFYLSSAVNPITYNLLSRFQAFQNVVIFVGVGNVLCVILVILQHQAMKT 360  
QY 361 ORNIFLTECHFEVLTEGIDGPFQFQCSQSMHNSHLPTALSSQMGRTNYQSFHFKMT 415  
Db 361 ORNIFLTECHFEVLTEGIDGPFQFQCSQSMHNSHLPTALSSQMGRTNYQSFHFKMT 415

## RESULT 2

US-09-170-496D-114  
; Sequence 114, Application US/09170496D  
; Patent No. 6555339  
; GENERAL INFORMATION:  
; APPLICANT: Behan, Dominic P.  
; APPLICANT: Chalmers, Derek T.  
; APPLICANT: Liaw, Chen W.  
; TITLE OF INVENTION: No. 6555339-Endogenous, Constitutively Activated Human G Protein-  
; FILE OF INVENTION: Receptors  
; FILE REFERENCE: AREN-0040  
; CURRENT FILING DATE: 1998-10-13  
; NUMBER OF SEQ ID NOS: 294  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 114  
; LENGTH: 403  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-170-496D-114

Query Match 43.1%; Score 942; DB 4; Length 403;  
Best Local Similarity 50.8%; Pred. No. 2.1e-80;  
Matches 180; Conservative 63; Mismatches 89; Indels 22; Gaps 6;

QY 20 DPQKHLNSTEELAF-LGPRRSHFELPVSVVYVPIFVGVGNVLCVILVILQHQAMKT 78  
Db 13 DP--EDNLNLTDEALRLKYLGPQOQTELEFMPICATYLLIFVVGAVGNGLTCLVILRHKAMRT 70  
QY 79 PTNYLFSLAVSDLLVLLGMPLEVEYEMWNRNYFLFGPVGCVYKFTALFETVCFAISILSIT 138  
Db 71 PTNYLFSLAVSDLLVLLGMPLEVEYEMWNRNYFLFGPVGCVYKFTALFETVCFAISILSIT 130  
QY 139 TVSVRYVAILHPFRKALQSTRRLRILGIVMGFSVLFSLPNTSIHGKIFHYFPNGSLV 198  
Db 131 ALSYRYVAVVHPLOARSMTVAHVRVVLGAVGNGLTCLVILRHKAMRT 190  
QY 199 PGSATCTVIKPMIYNIQVTSFLYLLPMTVISVLYLMLRLKDKSLEADGN--- 255  
Db 191 PDSAVCMVLRPRALYNNVQTTALLFFCLPMAIMSVLYLLGLRLRRERLLLMQEAARG 250  
QY 256 ---ANTQRPC-----RKSVMKMLFVLVLAICWAPFHIDRLFFSFVEEWSLA 304  
Db 251 SAAARSRYTCRLOQHDGRGRTKMLFVLVVGICWAPFHADRVMSVVSQWTDGLHLA 310  
QY 305 FNLVHVYGVFFYLSSAVNPITYNLLSRFQAFQNVVIFVGVGNVLCVILVILQHQAMKT 353  
Db 311 FQHVHVISGIFVYLGSAANPVLYSLMSRFRFTEQALCLGACCHRLRPRHSH 364

## RESULT 3

US-09-170-496D-224  
; Sequence 224, Application US/09170496D  
; Patent No. 6555339  
; GENERAL INFORMATION:  
; APPLICANT: Behan, Dominic P.  
; APPLICANT: Chalmers, Derek T.  
; APPLICANT: Liaw, Chen W.  
; TITLE OF INVENTION: No. 6555339-Endogenous, Constitutively Activated Human G Protein-  
; FILE OF INVENTION: Receptors  
; FILE REFERENCE: AREN-0040  
; CURRENT FILING DATE: 1998-10-13  
; NUMBER OF SEQ ID NOS: 294

; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 224  
; LENGTH: 403  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-170-496D-224

Query Match 43.1%; Score 942; DB 4; Length 403;  
Best Local Similarity 50.8%; Pred. No. 2.1e-80;  
Matches 180; Conservative 63; Mismatches 89; Indels 22; Gaps 6;

QY 20 DPQKHLNSTEELAF-LGPRRSHFELPVSVVYVPIFVGVGNVLCVILVILQHQAMKT 78  
Db 13 DP--EDNLNLTDEALRLKYLGPQOQTELEFMPICATYLLIFVVGAVGNGLTCLVILRHKAMRT 70  
QY 79 PTNYLFSLAVSDLLVLLGMPLEVEYEMWNRNYFLFGPVGCVYKFTALFETVCFAISILSIT 138  
Db 71 PTNYLFSLAVSDLLVLLGMPLEVEYEMWNRNYFLFGPVGCVYKFTALFETVCFAISILSIT 130  
QY 139 TVSVRYVAILHPFRKALQSTRRLRILGIVMGFSVLFSLPNTSIHGKIFHYFPNGSLV 198  
Db 131 ALSYRYVAVVHPLOARSMTVAHVRVVLGAVGNGLTCLVILRHKAMRT 190  
QY 199 PGSATCTVIKPMIYNIQVTSFLYLLPMTVISVLYLMLRLKDKSLEADGN--- 255  
Db 191 PDSAVCMVLRPRALYNNVQTTALLFFCLPMAIMSVLYLLGLRLRRERLLLMQEAARG 250  
QY 256 ---ANTQRPC-----RKSVMKMLFVLVLAICWAPFHIDRLFFSFVEEWSLA 304  
Db 251 SAAARSRYTCRLOQHDGRGRTKMLFVLVVGICWAPFHADRVMSVVSQWTDGLHLA 310  
QY 305 FNLVHVYGVFFYLSSAVNPITYNLLSRFQAFQNVVIFVGVGNVLCVILVILQHQAMKT 353  
Db 311 FQHVHVISGIFVYLGSAANPVLYSLMSRFRFTEQALCLGACCHRLRPRHSH 364

## RESULT 4

US-09-077-675A-3  
; Sequence 3, Application US/09077675A  
; Patent No. 6242199  
; GENERAL INFORMATION:  
; APPLICANT: Pal, Lee-Yuh  
; APPLICANT: Feighner, Scott C.  
; APPLICANT: Howard, Andrew D.  
; APPLICANT: Pong, Sheng-Shung  
; APPLICANT: Van Der Ploeg, Leonardus H.T.  
; TITLE OF INVENTION: RECEPTOR ASSAY  
; NUMBER OF SEQUENCES: 16  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Merck & Co., Inc.  
; STREET: P.O. Box 2000, 126 E. Lincoln Ave.  
; CITY: Rahway  
; STATE: NJ  
; COUNTRY: USA  
; ZIP: 07065-0900  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: DOS  
; SOFTWARE: FastSeq for Windows Version 2.0  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/077,675A  
; FILING DATE: 3-JUN-1998  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER:  
; FILING DATE:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Cocuzzo, Anna L.  
; REGISTRATION NUMBER: 42,452  
; REFERENCE/DOCKET NUMBER: 19590P  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 732-594-1273

```

;
; ATTORNEY/AGENT INFORMATION:
; NAME: Cocuzzo, Anna L.
; REGISTRATION NUMBER: 42,452
; REFERENCE/DOCKET NUMBER: 19589P
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 732-594-1273
; TELEFAX: 732-594-4720
; TELEX:
;
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 353 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
;
; US-09-077-674-3
;
; Query Match 20.5%; Score 448; DB 4; Length 353;
; Best Local Similarity 34.3%; Pred. No. 3.9e-34;
; Matches 104; Conservative 68; Mismatches 103; Indels 28; Gaps 7;
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; QY 48 VSVVVYPIFVGVIGNVCLVLIQHQAKMTPNTNYLFSLAVSDLLVLLGLGMPLEYEMW 107
; Db 33 VTATCALFVVGAGNLLTMLVVSREMKRTTNLLSSMAFSDDLIFLC-MPDDLRLW 91
;
; QY 108 RNPFFLPGVGCYFKTALFETVCFASILSTTVSVERYVAIILHPFRAKLQSTRRLRL 167
; Db 92 QYRPWNLGNLLCKLFQVSESCYATVLTITLSVERYFAICFPLRAKVVTGKRVKLV 151
;
; QY 168 GIWGVSVLFSLPNTSIHGKIFYPNGS-----LVPGSATCIVIKPMIYNF 215
; Db 152 LVITWAFVCSAGPIFVLGVGE---HDNGTDPRTNECRATEFAVRSGLLTVM--VWV--- 203
;
; QY 216 IIQVTFLEFLPMTVISVLYILMALRLKKDSLEADGNANTQRCRKSVMKMLFVLVL 275
; Db 204 -----SSVFFFLPVCLTVLYSLIGRLWRKRKGEAAVG--SSLRDQNHKQTVKMLAVVVF 257
;
; QY 276 VFAICWAPHIDRLFFS-FVEEMSESLAAVFNLVHVVGVSFFVFLSSAVNPPIYNLLSRRF 334
; Db 258 AFLCWLPHFVGRVLFESKLSLEPGSVETAIQISQYCNLVSVFLVYLSAANPILYNISKKY 317
;
; QY 335 QAA 337
; Db 318 RVA 320
;
;
; RESULT 6
; US-09-170-496D-210
; Sequence 210, Application US/09170496D
; Patent No. 6555339
; GENERAL INFORMATION:
; APPLICANT: Behan, Dominic P.
; APPLICANT: Chalmers, Derek T.
; APPLICANT: Liaw, Chen W.
; TITLE OF INVENTION: No. 6555339-Endogenous, Constitutively Activated Human G Proteins
; TITLE OF INVENTION: Receptors
; FILE REFERENCE: AREN-0040
; CURRENT APPLICATION NUMBER: US/09/170,496D
; CURRENT FILING DATE: 1998-10-13
; NUMBER OF SEQ ID NOS: 294
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 210
; LENGTH: 366
; TYPE: PRT
; ORGANISM: Homo sapiens
;
; US-09-170-496D-210
;
; Query Match 20.5%; Score 447; DB 4; Length 366;
; Best Local Similarity 34.0%; Pred. No. 5.1e-34;
; Matches 103; Conservative 68; Mismatches 104; Indels 28; Gaps 7;
;
; QY 48 VSVVVYPIFVGVIGNVCLVLIQHQAKMTPNTNYLFSLAVSDLLVLLGLGMPLEYEMW 107
; Db 33 VTATCALFVVGAGNLLTMLVVSREMKRTTNLLSSMAFSDDLIFLC-MPDDLRLW 91

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Db 46 VTATCVAFVGVGIAGNLLTMLVVSFRRLRTTTNLYLSMAFSDLLIFLC-MPLDLVRLW 104  
QY 108 RNYPLFGVGVGYKFTALFETVCFASIISITTVSVVERVVAIHPFRAKLQSTRRALRTL 167  
Db 105 QYRPNFGDLLCKLQFVSESTYATVLTITALSVERVFAICFPLRAKVVVTKGRVKLVI 164  
QY 168 GIWGFVSFLSPNTSIHGIKHPFPNGS-----LVPGSATCTVIKPMWYNF 215  
Db 165 FVIMAVAFCSAGPIFVLGVGEHE--NGTDPWDTNECRTEFAVRSGLLTVN--VWV--- 216  
QY 216 IIQVTSFYLPLPMVVISVLYLMLRLKKSLDEAGNANIQRCKRSVNMKLFVLVL 275  
Db 217 -----SSIFFFLPVCLTVLYSLIGRKLWRRRGDAVVG-ASLRQNHKQTKMLAVVVF 270  
QY 276 VFAICWAPFHIDRLFFS-FVEWSESAAVFNLVHVSQVFFYLSAVNPIIYNLLSRF 334  
Db 271 AFILCWLPFHVGRYLFESKSFEPGSLAIAQISOYCNLVSPVLYLSAAINPILYNIMSKKY 330  
QY 335 QAA 337  
Db 331 RVA 333

RESULT 7  
US-09-077-675A-8  
; Sequence 8, Application US/09077675A  
; Patent No. 6242199  
; GENERAL INFORMATION:  
; APPLICANT: Pai, Lee-Yuh  
; APPLICANT: Feighner, Scott C.  
; APPLICANT: Howard, Andrew D.  
; APPLICANT: Pong, Sheng-Shung  
; APPLICANT: Van Der Ploeg, Leonardus H.T.  
; TITLE OF INVENTION: RECEPTOR ASSAY  
; NUMBER OF SEQUENCES: 16  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Merck & Co., Inc.  
; STREET: P.O. Box 2000, 126 E. Lincoln Ave.  
; CITY: Rahway  
; STATE: NJ  
; COUNTRY: USA  
; ZIP: 07065-0900  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: DOS  
; SOFTWARE: FastSEQ for Windows Version 2.0  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/077,675A  
; FILING DATE: 3-JUN-1998  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER:  
; FILING DATE:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Cocuzzo, Anna L.  
; REGISTRATION NUMBER: 42,452  
; REFERENCE/DOCKET NUMBER: 19590P  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 732-594-1273  
; TELEFAX: 732-594-4720  
; TELEX:  
; INFORMATION FOR SEQ ID NO: 8:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 361 amino acids  
; TYPE: amino acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
US-09-077-675A-8

Query Match 20.3%; Score 444; DB 3; Length 361;  
Best Local Similarity 34.0%; Pred. No. 9.6e-34;

Matches 103; Conservative 68; Mismatches 104; Indels 28; Gaps 7;  
QY 48 VSVVVVPIFVGVIGNVILVCLVILQAMKTPNTNYLFSVLASVLDLLVLLGMPLEVYEMW 107  
Db 41 VTATCVAFVGVGIAGNLLTMLVVSFRRLRTTTNLYLSMAFSDLLIFLC-MPLDLVRLW 99  
QY 108 RNYPLFGVGVGYKFTALFETVCFASIISITTVSVVERVVAIHPFRAKLQSTRRALRTL 167  
Db 100 QYRPNFGDLLCKLQFVSESTYATVLTITALSVERVFAICFPLRAKVVVTKGRVKLVI 159  
QY 168 GIWGFVSFLSPNTSIHGIKHPFPNGS-----LVPGSATCTVIKPMWYNF 215  
Db 160 FVIMAVAFCSAGPIFVLGVGEHE--NGTDPWDTNECRTEFAVRSGLLTVN--VWV--- 211  
QY 216 IIQVTSFYLPLPMVVISVLYLMLRLKKSLDEAGNANIQRCKRSVNMKLFVLVL 275  
Db 212 -----SSIFFFLPVCLTVLYSLIGRKLWRRRGDAVVG-ASLRQNHKQTKMLAVVVF 265  
QY 276 VFAICWAPFHIDRLFFS-FVEWSESAAVFNLVHVSQVFFYLSAVNPIIYNLLSRF 334  
Db 266 AFILCWLPFHVGRYLFESKSFEPGSLAIAQISOYCNLVSPVLYLSAAINPILYNIMSKKY 325  
QY 335 QAA 337  
Db 326 RVA 328

RESULT 8  
US-09-077-674-8  
; Sequence 8, Application US/09077674  
; Patent No. 6531314  
; GENERAL INFORMATION:  
; APPLICANT: Arena, Joseph P.  
; APPLICANT: Cully, Doris F.  
; APPLICANT: Feighner, Scott D.  
; APPLICANT: Howard, Andrew D.  
; APPLICANT: Liberator, Paul A.  
; APPLICANT: Schaeffer, James M.  
; APPLICANT: Van Der Ploeg, Leonardus  
; TITLE OF INVENTION: GROWTH HORMONE SECRETAGOGUE RECEPTOR FAMILY  
; NUMBER OF SEQUENCES: 16  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Merck & Co., Inc.  
; STREET: P.O. Box 2000, 126 E. Lincoln Ave.  
; CITY: Rahway  
; STATE: NJ  
; COUNTRY: USA  
; ZIP: 07065-0900  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: DOS  
; SOFTWARE: FastSEQ for Windows Version 2.0  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/077,674  
; FILING DATE: 3-JUN-1998  
; CLASSIFICATION: 536  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER:  
; FILING DATE:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Cocuzzo, Anna L.  
; REGISTRATION NUMBER: 42,452  
; REFERENCE/DOCKET NUMBER: 19589P  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 732-594-1273  
; TELEFAX: 732-594-4720  
; TELEX:  
; INFORMATION FOR SEQ ID NO: 8:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 361 amino acids  
; TYPE: amino acid  
; STRANDEDNESS: single

TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-09-077-674-8

Query Match 20.3%; Score 444; DB 4; Length 361;  
Best Local Similarity 34.0%; Pred. No. 9.6e-34;  
Matches 103; Conservative 68; Mismatches 104; Indels 28; Gaps 7;

QY 48 VVVVPIFVVGIGVGNVLCVLIHQAMKPTNYLFLSLAVSDLLVLLGMPLEVEYEW 107  
DB 41 VTATCVAFVVGAGNLLTMLVSRFRELTTNLYLSSMAFSDLLIFLC-MPLDLVRLW 99  
QY 108 RNPFLFGPGVCYEKFTALFETVCFASISLITTSVSVRYAILHPFRAKLOSTRRLRIL 167  
DB 100 QYRPNWFGDLCKLQFVSECTYATVLTITALSVERYFAICFPLRAKVVTGRVKLVI 159  
QY 168 GIWVGSVFLSPLNTSHGKIFHYFPNGS-----LVPGSATCTVIKPMIYNF 215  
DB 160 FVIWAVAFCSAGPIFVLGVGEHE---NGTDPWDTNECRPTFEFAVRSGLLTVM--VWV--- 211  
QY 216 IIQVTSFLYLLPMTVISVLYLMALRKKDKSLEADENANIORPCRSVKNKMLFVLVL 275  
DB 212 -----SSIFFFLPVFCLTVLYSLIGRKLWRRRGDAVVG-ASLRDQNHKQTVKMLAVVVF 265  
QY 276 VFAICWAPFHIDRLFFS-FVEEWSSESLAAVNLFVHVVGFFYLSAVNPPIIYNLLSRF 334  
DB 266 AFILCWLPFHVGRYLFSEKSPGSLAIAQISQYCNLVSVFLVYLSAAINPILYNIMSKY 325  
QY 335 QAA 337  
DB 326 RVA 328

## RESULT 9

US-09-077-675A-13  
Sequence 13, Application US/09077675A  
Patent No. 6242199  
GENERAL INFORMATION:  
APPLICANT: Pai, Lee-Yuh  
APPLICANT: Feighner, Scott C.  
APPLICANT: Howard, Andrew D.  
APPLICANT: Pong, Sheng-Shung  
APPLICANT: Van Der Ploeg, Leonardus H.T.  
TITLE OF INVENTION: RECEPTOR ASSAY  
NUMBER OF SEQUENCES: 16  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Merck & Co., Inc.  
STREET: P.O. Box 2000, 126 E. Lincoln Ave.  
CITY: Rahway  
STATE: NJ  
COUNTRY: USA  
ZIP: 07065-0900  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: DOS  
SOFTWARE: FastSeq for Windows Version 2.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/077, 675A  
FILING DATE: 3-JUN-1998  
CLASSIFICATION:  
PRIOR APPLICATION NUMBER:  
FILING DATE:  
ATTORNEY/AGENT INFORMATION:  
NAME: Cocuzzo, Anna L.  
REGISTRATION NUMBER: 42,452  
REFERENCE/DOCKET NUMBER: 19590P  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 732-594-1273  
TELEFAX: 732-594-4720  
TELEX:  
INFORMATION FOR SEQ ID NO: 13:

SEQUENCE CHARACTERISTICS:  
LENGTH: 366 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-09-077-675A-13

Query Match 20.3%; Score 444; DB 3; Length 366;  
Best Local Similarity 34.0%; Pred. No. 9.8e-34;  
Matches 103; Conservative 68; Mismatches 104; Indels 28; Gaps 7;

QY 48 VVVVPIFVVGIGVGNVLCVLIHQAMKPTNYLFLSLAVSDLLVLLGMPLEVEYEW 107  
DB 46 VTATCVAFVVGAGNLLTMLVSRFRELTTNLYLSSMAFSDLLIFLC-MPLDLVRLW 104  
QY 108 RNPFLFGPGVCYEKFTALFETVCFASISLITTSVSVRYAILHPFRAKLOSTRRLRIL 167  
DB 105 QYRPNWFGDLCKLQFVSECTYATVLTITALSVERYFAICFPLRAKVVTGRVKLVI 164  
QY 168 GIWVGSVFLSPLNTSHGKIFHYFPNGS-----LVPGSATCTVIKPMIYNF 215  
DB 165 FVIWAVAFCSAGPIFVLGVGEHE---NGTDPWDTNECRPTFEFAVRSGLLTVM--VWV--- 216  
QY 216 IIQVTSFLYLLPMTVISVLYLMALRKKDKSLEADENANIORPCRSVKNKMLFVLVL 275  
DB 217 -----SSIFFFLPVFCLTVLYSLIGRKLWRRRGDAVVG-ASLRDQNHKQTVKMLAVVVF 270  
QY 276 VFAICWAPFHIDRLFFS-FVEEWSSESLAAVNLFVHVVGFFYLSAVNPPIIYNLLSRF 334  
DB 271 AFILCWLPFHVGRYLFSEKSPGSLAIAQISQYCNLVSVFLVYLSAAINPILYNIMSKY 330  
QY 335 QAA 337  
DB 331 RVA 333

## RESULT 10

US-09-077-674-13  
Sequence 13, Application US/09077674  
Patent No. 6531314  
GENERAL INFORMATION:  
APPLICANT: Arena, Joseph P.  
APPLICANT: Cully, Doris F.  
APPLICANT: Feighner, Scott D.  
APPLICANT: Howard, Andrew D.  
APPLICANT: Liberator, Paul A.  
APPLICANT: Schaeffer, James M.  
APPLICANT: Van Der Ploeg, Leonardus  
TITLE OF INVENTION: GROWTH HORMONE SECRETAGOGUE RECEPTOR FAMILY  
NUMBER OF SEQUENCES: 16  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Merck & Co., Inc.  
STREET: P.O. Box 2000, 126 E. Lincoln Ave.  
CITY: Rahway  
STATE: NJ  
COUNTRY: USA  
ZIP: 07065-0900  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: DOS  
SOFTWARE: FastSeq for Windows Version 2.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/077, 674  
FILING DATE: 3-JUN-1998  
CLASSIFICATION: 536  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER:  
FILING DATE:  
ATTORNEY/AGENT INFORMATION:  
NAME: Cocuzzo, Anna L.  
REGISTRATION NUMBER: 42,452

```
; REFERENCE/DOCKET NUMBER: 19589P
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 732-594-1273
; TELEFAX: 732-594-4720
;
; INFORMATION FOR SEQ ID NO: 13:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 366 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-09-077-674-13

Query Match      20.3%; Score 444; DB 4; Length 366;
Best Local Similarity 34.0%; Pred. No. 9.8e-34;
Matches 103; Conservative 68; Mismatches 104; Indels 28; Gaps 7;

QY 48 VSVVYPIFVGVGIVGNVLVCLVILQHQAMKTPNTNYLFSVLAISDVLVLLGMPLEYEMW 107
Db 46 VTATCVAFVGVGIAGNLLTMLVVSFRRELRTTNLYLSSMAFSDLLIFLC-NPLDLVRLW 104

QY 108 RNYPELFGVGVGYFKTALFETVCFASILSITTVSVRYVAILHPFRALQSTRRALRL 167
Db 105 QYRPNFGLDLCKLFQVSECTYATVLTITALSVRYFAICFPLRAKVVVTKGRYKVI 164

QY 168 GIVMGFSVFLSLPNTSIHGKIKHYFPNGS-----LVPGSATCTVIKPMIYNF 215
Db 165 FVIWAVAFCSAGPIFVLGVGEH-----NGTDPWDTNECRTEFAVRSGLLTVM--VWV--- 216

QY 216 IIQVTSFLYLLPMTVISVLYLMALRLKKDSLEADGNANIQRCKSVNKMFLVVL 275
Db 217 -----SSIEFFLPVCLTVLYSLIGRKLWRRRGDAVVG-ASLRDQNHKQTVKMLAVVVF 270

QY 276 VFAICWAPHIDRLFFS-FVEWSESAAVFNLVHVSVGVFFYLSAVNPIIYNLLSRFF 334
Db 271 AFLICWLPVHVGRYLFKSFEPSLEIAQISOYCNLVSEFLVFLYLSAAINPILYNIMSKY 330

QY 335 QAA 337
Db 331 RVA 333

RESULT 11
US-09-170-496D-88
; Sequence 88, Application US/09170496D
; Patent No. 6555339
; GENERAL INFORMATION:
; APPLICANT: Behan, Dominic P.
; APPLICANT: Chalmers, Derek T.
; APPLICANT: Liaw, Chen W.
; TITLE OF INVENTION: No. 6555339-Endogenous, Constitutively Activated Human G Protein-
; FILE REFERENCE: AREN-0040
; CURRENT APPLICATION NUMBER: US/09/170,496D
; NUMBER OF SEQ ID NOS: 294
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 88
; LENGTH: 366
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-170-496D-88

Query Match      20.3%; Score 444; DB 4; Length 366;
Best Local Similarity 34.0%; Pred. No. 9.8e-34;
Matches 103; Conservative 68; Mismatches 104; Indels 28; Gaps 7;

QY 48 VSVVYPIFVGVGIVGNVLVCLVILQHQAMKTPNTNYLFSVLAISDVLVLLGMPLEYEMW 107
Db 46 VTATCVAFVGVGIAGNLLTMLVVSFRRELRTTNLYLSSMAFSDLLIFLC-NPLDLVRLW 104

QY 108 RNYPELFGVGVGYFKTALFETVCFASILSITTVSVRYVAILHPFRALQSTRRALRL 167
Db 105 QYRPNFGLDLCKLFQVSECTYATVLTITALSVRYFAICFPLRAKVVVTKGRYKVI 164

QY 168 GIVMGFSVFLSLPNTSIHGKIKHYFPNGS-----LVPGSATCTVIKPMIYNF 215
Db 165 FVIWAVAFCSAGPIFVLGVGEH-----NGTDPWDTNECRTEFAVRSGLLTVM--VWV--- 216

QY 216 IIQVTSFLYLLPMTVISVLYLMALRLKKDSLEADGNANIQRCKSVNKMFLVVL 275
Db 217 -----SSIEFFLPVCLTVLYSLIGRKLWRRRGDAVVG-ASLRDQNHKQTVKMLAVVVF 270

QY 276 VFAICWAPHIDRLFFS-FVEWSESAAVFNLVHVSVGVFFYLSAVNPIIYNLLSRFF 334
Db 271 AFLICWLPVHVGRYLFKSFEPSLEIAQISOYCNLVSEFLVFLYLSAAINPILYNIMSKY 330

QY 335 QAA 337
Db 331 RVA 333

RESULT 12
US-09-077-675A-16
; Sequence 16, Application US/09077675A
; Patent No. 6242199
; GENERAL INFORMATION:
; APPLICANT: Pal, Lee-Yuh
; APPLICANT: Feighner, Scott C.
; APPLICANT: Howard, Andrew D.
; APPLICANT: Pong, Sheng-Shung
; APPLICANT: Van Der Ploeg, Leonardus H.T.
; TITLE OF INVENTION: RECEPTOR ASSAY
; NUMBER OF SEQUENCES: 16
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Merck & Co., Inc.
; STREET: P.O. Box 2000, 126 E. Lincoln Ave.
; CITY: Rahway
; STATE: NJ
; COUNTRY: USA
; ZIP: 07065-0900
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/077,675A
; FILING DATE: 3-JUN-1998
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Cocuzzo, Anna L.
; REGISTRATION NUMBER: 42,452
; REFERENCE/DOCKET NUMBER: 19590P
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 732-594-1273
; TELEFAX: 732-594-4720
; TELEX:
; INFORMATION FOR SEQ ID NO: 16:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 364 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-09-077-675A-16

Query Match      20.0%; Score 436.5; DB 3; Length 364;
Best Local Similarity 34.0%; Pred. No. 4.9e-33;
Matches 103; Conservative 68; Mismatches 103; Indels 29; Gaps 8;

QY 48 VSVVYPIFVGVGIVGNVLVCLVILQHQAMKTPNTNYLFSVLAISDVLVLLGMPLEYEMW 107
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Db 45 VTATCVAFVVGISGNLLTMLVVSRRFRELTTNNLYLSSMAFSDLLIFLC-MPLDLVRLW 103  
QY 108 RNPFLPGPCVCEKFTALFETVCFASILSTTTVSERYVAILHPFRAKLOSTRRLRIL 167  
Db 104 QYRPNFGDGLCKLFQVSESCYATVLTITLTSVERYFAICFPRAKVVVTKGRVKLVI 163  
QY 168 GIWVGFSVLSLNTSIHGKIFHYFPNGS-----LVPGSATCTVTKPMWYNE 215  
Db 164 LVIWAVAFCSAGPIFVLGVGEHE---NGTDPRTNECRATEFAVRSGLLTVM--VWV--- 215  
QY 216 IIQVTSFLYLLPMTVTSVLYYLMALRKKDKSLEADENANTORPCRSVKNKMLFVLVL 275  
Db 216 -----SSVFFFLPVFCLTVLSLIGRKLWRRRG--DAAVG--ASLRDQNHKQTVKMLAVVVF 268  
QY 276 VFAICWAPFHIDRLFFS-FVEEWSSESLAAVFNLVHVYGVFFYLLSSAVNPILYNLSRRF 334  
Db 269 AFILCWLPFHVGRYLFKSPGSLTAQISOYCNLVSVFLVFLYLSAAINPILYNIMSKY 328  
QY 335 QAA 337  
Db 329 RVA 331

## RESULT 13

US-09-077-674-16  
; Sequence 16, Application US/09077674  
; Patent No. 6531314

## GENERAL INFORMATION:

; APPLICANT: Arena, Joseph P.  
; APPLICANT: Cully, Doris F.  
; APPLICANT: Feighner, Scott D.  
; APPLICANT: Howard, Andrew D.  
; APPLICANT: Liberator, Paul A.  
; APPLICANT: Schaeffer, James M.  
; APPLICANT: Van Der Ploeg, Leonardus  
; TITLE OF INVENTION: GROWTH HORMONE SECRETAGOGUE RECEPTOR FAMILY  
; NUMBER OF SEQUENCES: 16  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Merck & Co., Inc.  
; STREET: P.O. Box 2000, 126 E. Lincoln Ave.  
; CITY: Rahway  
; STATE: NJ  
; COUNTRY: USA  
; ZIP: 07065-0900

## COMPUTER READABLE FORM:

; MEDIUM TYPE: Diskette  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: DOS  
; SOFTWARE: FastSeq for Windows Version 2.0  
; CURRENT APPLICATION DATA: US/09/077, 674  
; APPLICATION NUMBER: 536  
; FILING DATE: 3-JUN-1998  
; CLASSIFICATION: 536  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER:  
; FILING DATE:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Cocuzzo, Anna L.  
; REGISTRATION NUMBER: 42,452  
; REFERENCE/DOCKET NUMBER: 19589P  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 732-594-1273  
; TELEFAX: 732-594-4720  
; TELEX:

## INFORMATION FOR SEQ ID NO: 16:

; SEQUENCE CHARACTERISTICS:  
; LENGTH: 364 amino acids  
; TYPE: amino acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
US-09-077-674-16

Query Match 20.0% Score 436.5; DB 4; Length 364;  
Best Local Similarity 34.0% Pred. No. 4.9e-33;  
Matches 103; Conservative 68; Mismatches 103; Indels 29; Gaps 8;

QY 48 VSVVYPIFYVGVGNVLCVILQHOAMKPTNNYLFSLAVSDLLVLLGMPLEVYEMW 107  
Db 45 VTATCVAFVVGISGNLLTMLVVSRRFRELTTNNLYLSSMAFSDLLIFLC-MPLDLVRLW 103  
QY 108 RNPFLPGPCVCEKFTALFETVCFASILSTTTVSERYVAILHPFRAKLOSTRRLRIL 167  
Db 104 QYRPNFGDGLCKLFQVSESCYATVLTITLTSVERYFAICFPRAKVVVTKGRVKLVI 163  
QY 168 GIWVGFSVLSLNTSIHGKIFHYFPNGS-----LVPGSATCTVTKPMWYNE 215  
Db 164 LVIWAVAFCSAGPIFVLGVGEHE---NGTDPRTNECRATEFAVRSGLLTVM--VWV--- 215  
QY 216 IIQVTSFLYLLPMTVTSVLYYLMALRKKDKSLEADENANTORPCRSVKNKMLFVLVL 275  
Db 216 -----SSVFFFLPVFCLTVLSLIGRKLWRRRG--DAAVG--ASLRDQNHKQTVKMLAVVVF 268  
QY 276 VFAICWAPFHIDRLFFS-FVEEWSSESLAAVFNLVHVYGVFFYLLSSAVNPILYNLSRRF 334  
Db 269 AFILCWLPFHVGRYLFKSPGSLTAQISOYCNLVSVFLVFLYLSAAINPILYNIMSKY 328  
QY 335 QAA 337  
Db 329 RVA 331

## RESULT 14

US-08-118-270-45  
; Sequence 45, Application US/08118270  
; Patent No. 5508384

## GENERAL INFORMATION:

; APPLICANT: Murphy, Randall B.  
; APPLICANT: Schuster, David I.  
; TITLE OF INVENTION: POLYPEPTIDES OF G-COUPLED PROTEIN  
; TITLE OF INVENTION: RECEPTORS, AND COMPOSITIONS AND METHODS THEREOF  
; NUMBER OF SEQUENCES: 348  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: BROWDY AND NEIMARK  
; STREET: 419 Seventh Street, N.W., Suite 300  
; CITY: Washington  
; STATE: D.C.  
; COUNTRY: USA  
; ZIP: 20004

## COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patentin Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/118,270  
; FILING DATE: 09-SEP-1993  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 07/943,236  
; FILING DATE: 10-SEP-1992  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Townsend, Kevin G.  
; REGISTRATION NUMBER: 34,033  
; REFERENCE/DOCKET NUMBER: MURPHY-2A  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 202-628-5197  
; TELEFAX: 202-737-3528  
; TELEX: 248633

## INFORMATION FOR SEQ ID NO: 45:

; SEQUENCE CHARACTERISTICS:  
; LENGTH: 353 amino acids  
; TYPE: amino acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: peptide





GenCore version 5.1.6  
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OM protein - protein search, using sw model

Run on: August 22, 2003, 18:59:27 ; Search time 14.6296 seconds  
(without alignments)  
1142.393 Million cell updates/sec

Title: us-09-609-146-25

Perfect score: 2076

Sequence: 1 MGKLENASWIHDPMLKYLNS.....GOSSIHNTLTAPCAGEVP 395

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 328717 seqs, 42310858 residues

Total number of hits satisfying chosen parameters: 328717

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Issued\_Patents\_AA.\*  
1: /cgn2\_6/ptodata/1/1aa/5A\_COMB.pep.\*  
2: /cgn2\_6/ptodata/1/1aa/5B\_COMB.pep.\*  
3: /cgn2\_6/ptodata/1/1aa/6A\_COMB.pep.\*  
4: /cgn2\_6/ptodata/1/1aa/6B\_COMB.pep.\*  
5: /cgn2\_6/ptodata/1/1aa/PCTUS\_COMB.pep.\*  
6: /cgn2\_6/ptodata/1/1aa/backfiles1.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1640.5	79.0	415	4	US-09-545-944-2
2	952.5	45.9	403	4	US-09-170-4960-114
3	946.5	45.6	403	4	US-09-170-4960-224
4	465.5	22.4	364	3	US-09-077-675A-16
5	465.5	22.4	364	4	US-09-077-674-16
6	465	22.4	353	3	US-09-077-675A-3
7	465	22.4	353	4	US-09-077-674-3
8	463.5	22.3	361	3	US-09-077-675A-8
9	463.5	22.3	361	4	US-09-077-674-8
10	463.5	22.3	366	3	US-09-077-675A-13
11	463.5	22.3	366	4	US-09-077-674-13
12	463.5	22.3	366	4	US-09-077-674-88
13	462.5	22.3	366	4	US-09-170-4960-210
14	437	21.1	410	3	US-08-858-876A-2
15	437	21.1	410	3	US-09-472-880-2
16	433.5	20.9	353	1	US-08-118-270-45
17	433.5	20.9	353	5	PCT-US93-08528-45
18	430.5	20.7	416	3	US-08-858-876A-4
19	430.5	20.7	416	3	US-09-472-880-4
20	427	20.6	410	4	US-09-200-090-2
21	423	20.4	302	3	US-09-077-675A-2
22	423	20.4	302	4	US-09-077-674-2
23	421.5	20.3	302	3	US-09-077-675A-7
24	421.5	20.3	302	4	US-09-077-674-7
25	416	20.0	398	2	US-08-288-663A-1
26	412	19.8	393	1	US-07-629-1041-3
27	401.5	19.3	391	4	US-09-200-090-4

28	400.5	19.3	400	3	US-08-889-108-8	Sequence 8, Appl
29	400.5	19.3	400	5	PCT-US94-10358-8	Sequence 8, Appl
30	399.5	19.2	384	2	US-08-103-170-10	Sequence 10, Appl
31	396.5	19.1	400	4	US-09-351-198-2	Sequence 2, Appl
32	396.5	19.1	400	4	US-09-113-426-2	Sequence 2, Appl
33	396.5	19.1	415	4	US-08-405-271A-20	Sequence 20, Appl
34	395.5	19.1	400	3	US-08-188-275A-2	Sequence 2, Appl
35	392	18.9	341	1	US-08-118-270-48	Sequence 48, Appl
36	392	18.9	341	5	PCT-US93-08528-48	Sequence 48, Appl
37	389.5	18.8	319	3	US-08-832-399-2	Sequence 2, Appl
38	389.5	18.8	319	3	US-09-372-498-2	Sequence 2, Appl
39	388.5	18.7	398	2	US-08-288-663A-15	Sequence 15, Appl
40	387	18.6	390	4	US-09-761-962A-25	Sequence 25, Appl
41	387	18.6	391	4	US-09-761-962A-26	Sequence 26, Appl
42	387	18.6	392	4	US-09-761-962A-19	Sequence 19, Appl
43	387	18.6	398	4	US-09-761-962A-29	Sequence 29, Appl
44	387	18.6	401	4	US-09-761-962A-20	Sequence 20, Appl
45	387	18.6	409	4	US-09-761-962A-27	Sequence 27, Appl

#### ALIGNMENTS

##### RESULT\_1

US-09-545-944-2

; Sequence 2, Application US/09545944

; Patent No. 6461836

; GENERAL INFORMATION:

; APPLICANT: AMES, ROBERT

; APPLICANT: ELSHOUBAGY, NABIL

; APPLICANT: MICHALOVICH, DAVID

; APPLICANT: SARAU, HENRY

; APPLICANT: SHABON, USMAN

; APPLICANT: VAWTER, LISA

; TITLE OF INVENTION: MOLECULAR CLONING OF A 7TM RECEPTOR

; TITLE OF INVENTION: (AXOR34) AND SCREENING METHODS THEREOF

; FILE REFERENCE: GP70657-1

; CURRENT APPLICATION NUMBER: US/09/545,944

; CURRENT FILING DATE: 2000-04-10

; PRIOR APPLICATION NUMBER: US 09/435,384

; PRIOR FILING DATE: 1999-11-05

; NUMBER OF SEQ ID NOS: 5

; SOFTWARE: FastSeq for Windows Version 3.0

; SEQ ID NO 2

; LENGTH: 415

; TYPE: PRT

; ORGANISM: HOMO SAPIENS

US-09-545-944-2

Query Match 79.0%; Score 1640.5; DB 4; Length 415;  
Best Local Similarity 79.1%; Pred. No. 2.6e-127;  
Matches 311; Conservative 35; Mismatches 42; Indels 5; Gaps 1;

Qy 1 MGKLENASWIH-----DPLMKYLNSTEEYLAHLCGPKRSDLSLPVSAYALIFLVGMGN 55

Db 4 MEXLQNASWIYQOKLEDPFQKHLNSTEEYLAFLCGRPSRHFFLPVSVVYVIFVGVGIN 63

Qy 56 LLVCMVIVRQTLKTPNTNYFLFSLAVSDLLVLLGLMPLLEYEMHNYFFLPGVCYFKT 115

Db 64 VLCLVLTLQHQAKTPTNYFLFSLAVSDLLVLLGLMPLLEYEMHNYFFLPGVCYFKT 123

Qy 116 ALPFTVCFASTLSVTVTSVRYVAIVHPFRAKLESTRRRRLRILSLVMSFSVPSLPNTS 175

Db 124 ALPFTVCFASTLSVTVTSVRYVAIVHPFRAKLESTRRRRLRILSLVMSFSVPSLPNTS 183

Qy 176 IHGKIFQHFPGNSVPGSATCTVTKPMVYNLIQTATSEFLYIPLMTLISVLYLMLGRL 235

Db 184 IHGKIFHYFPGNSLVPGSATCTVTIKPMIYNFIQVTSFLYLLPMYVISVLYLMLRL 243

Qy 236 KRDESLBANKVAVNIHRPSRKSVTKMLFVLVLFVAICWTPPHVDRLFFSFVEEWTESLAA 295

Db 244 KKDKSLEADENANIQRCKRSVKNMLFVLVLFVAICWAPPHIDRLFFSFVEEWTESLAA 303

QY 296 VFNLHVVSGVFFYLSAVNPIIYNLLSRFRRAFRNVVPTCKKCHPRHRPOGPPAQKI 355  
Db 304 VFNLHVVSGVFFYLSAVNPIIYNLLSRFRRAFRNVVPTCKKCHPRHRPOGPPAQKI 363  
QY 356 IFLTECHVELTEDAGPOFGOSSIHNTLTTA 388  
Db 364 IFLTECHVELTEDIGPQLCOSSVHNSHLPTA 396

## RESULT 2

US-09-170-496D-114

; Sequence 114, Application US/09170496D

; Patent No. 6555339

; GENERAL INFORMATION:

; APPLICANT: Behan, Dominic P.

; APPLICANT: Chalmers, Derek T.

; APPLICANT: Liaw, Chen W.

; TITLE OF INVENTION: Receptors

; FILE REFERENCE: AREN-0040

; CURRENT APPLICATION NUMBER: US/09/170,496D

; CURRENT FILING DATE: 1998-10-13

; NUMBER OF SEQ ID NOS: 294

; SOFTWARE: PatentIn version 3.1

; SEQ ID NO 114

; LENGTH: 403

; TYPE: PRT

; ORGANISM: Homo sapiens

US-09-170-496D-114

Query Match 45.9%; Score 952.5; DB 4; Length 403;

Best Local Similarity 47.9%; Pred. No. 9e-71;

Matches 183; Conservative 60; Mismatches 94; Indels 45; Gaps 5;

QY 18 LNSTEYL-AHLGPKRSPLSPVAVAYALIFLVGMGNLLVCMVIRVHQTLPNTNYL 76  
Db 17 LNLTDALRLKYLGPQOTELFPICATYLLIFVGVAGVNGLTCLVLRHKAMRTPTNYL 76

QY 77 FSLAVSDLLVLLGMPLEIYEMHNYPFLLGPGVCYFKTALFETVCFASILSVTVSVR 136  
Db 77 FSLAVSDLLVLLGMPLEIYEMHNYPFLLGPGVCYFKTALFETVCFASILSVTVSVR 136

QY 137 YVAIVHPRFRAKLESTRRLRILSLVMSVSVFSLPNTSIHGKIFQHPNGSSVPGSATC 196  
Db 137 YVAIVHPRFRAKLESTRRLRILSLVMSVSVFSLPNTSIHGKIFQHPNGSSVPGSATC 196

QY 197 TVTKPMWYNLIQATSFLLYILPMTLISVLYLMLGLRLKRDLSL---EAN----- 244  
Db 197 MLVPRALYMMVVQTTALLFFCLPMAIMSVLYLLIGLRRLRRLLLMQEAKRGSAARS 256

QY 245 --KVAVNIHRPSRKSVTKMLFVLVFAICWTPFHVDRLFVFEWETSLAAVFNLIHV 302  
Db 257 RYTCRLQOHDGRGRVQTKMLFVLVVFVFGICWAPFHADRVMSVSVQNTDGLHLAFQHVH 316

QY 303 VSGVFYLSAVNPIIYNLLSRFRRAFRNVV-----SPTC 338  
Db 317 ISGIFYLGAANPVLYSLMSSRFRETFOEALCLGACCHRLRPRHSSLSLRMTTGTSLC 376

QY 339 -----KWCHPRHRPOGPPAQK 354

Db 377 DVGSLGSMVHPLAGNDGPEAQ 398

## RESULT 3

US-09-170-496D-224

; Sequence 224, Application US/09170496D

; Patent No. 6555339

; GENERAL INFORMATION:

; APPLICANT: Behan, Dominic P.

; APPLICANT: Chalmers, Derek T.

; APPLICANT: Liaw, Chen W.

; TITLE OF INVENTION: Receptors

; FILE REFERENCE: AREN-0040

; CURRENT APPLICATION NUMBER: US/09/170,496D

; CURRENT FILING DATE: 1998-10-13

; NUMBER OF SEQ ID NOS: 294

; SOFTWARE: PatentIn version 3.1

; SEQ ID NO 114

; LENGTH: 403

; TYPE: PRT

; ORGANISM: Homo sapiens

US-09-170-496D-224

Query Match 45.9%; Score 952.5; DB 4; Length 403;

Best Local Similarity 47.9%; Pred. No. 9e-71;

Matches 183; Conservative 60; Mismatches 94; Indels 45; Gaps 5;

QY 18 LNSTEYL-AHLGPKRSPLSPVAVAYALIFLVGMGNLLVCMVIRVHQTLPNTNYL 76  
Db 17 LNLTDALRLKYLGPQOTELFPICATYLLIFVGVAGVNGLTCLVLRHKAMRTPTNYL 76

QY 77 FSLAVSDLLVLLGMPLEIYEMHNYPFLLGPGVCYFKTALFETVCFASILSVTVSVR 136  
Db 77 FSLAVSDLLVLLGMPLEIYEMHNYPFLLGPGVCYFKTALFETVCFASILSVTVSVR 136

QY 137 YVAIVHPRFRAKLESTRRLRILSLVMSVSVFSLPNTSIHGKIFQHPNGSSVPGSATC 196  
Db 137 YVAIVHPRFRAKLESTRRLRILSLVMSVSVFSLPNTSIHGKIFQHPNGSSVPGSATC 196

QY 197 TVTKPMWYNLIQATSFLLYILPMTLISVLYLMLGLRLKRDLSL---EAN----- 244  
Db 197 MLVPRALYMMVVQTTALLFFCLPMAIMSVLYLLIGLRRLRRLLLMQEAKRGSAARS 256

QY 245 --KVAVNIHRPSRKSVTKMLFVLVFAICWTPFHVDRLFVFEWETSLAAVFNLIHV 302  
Db 257 RYTCRLQOHDGRGRVQTKMLFVLVVFVFGICWAPFHADRVMSVSVQNTDGLHLAFQHVH 316

QY 303 VSGVFYLSAVNPIIYNLLSRFRRAFRNVV-----SPTC 338  
Db 317 ISGIFYLGAANPVLYSLMSSRFRETFOEALCLGACCHRLRPRHSSLSLRMTTGTSLC 376

QY 339 -----KWCHPRHRPOGPPAQK 354

Db 377 DVGSLGSMVHPLAGNDGPEAQ 398

RESULT 4

US-09-077-675A-16

; Sequence 16, Application US/09077675A

; Patent No. 6242199

; GENERAL INFORMATION:

; APPLICANT: Pai, Lee-Yuh

; APPLICANT: Feighner, Scott C.

; APPLICANT: Howard, Andrew D.

; APPLICANT: Pong, Sheng-Shung

; APPLICANT: Van Der Ploeg, Leonardus H.T.

; TITLE OF INVENTION: RECEPTOR ASSAY

; NUMBER OF SEQUENCES: 16

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Merck &amp; Co., Inc.

; STREET: P.O. Box 2000, 126 E. Lincoln Ave.

; CITY: Rahway

; STATE: NJ

; COUNTRY: USA

; ZIP: 07065-0900

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Diskette

; OPERATING SYSTEM: DOS

; SOFTWARE: FASTSEQ for Windows Version 2.0

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/09/077,675A

; FILING DATE: 3-JUN-1998

; CLASSIFICATION:

; PRIOR APPLICATION DATA:

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; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Cocuzzo, Anna L.
; REGISTRATION NUMBER: 42,452
; REFERENCE/DOCKET NUMBER: 19590P
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 732-594-1273
; TELEFAX: 732-594-4720
; TELEX:
; INFORMATION FOR SEQ ID NO: 16:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 364 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-09-077-675A-16

Query Match      22.4%; Score 465.5; DB 3; Length 364;
Best Local Similarity 34.6%; Pred. No. 8.7e-31;
Matches 104; Conservative 65; Mismatches 107; Indels 25; Gaps 6;

Qy 40 VSAVALIFLVGNLVCVIVRHOTLPTNYLFSLVASDLLVLLGMPLEIYEMW 99
Db 45 VTATCVALFVVGISGNLLTMLVSRFRELRTTNLYLSSMAFSDLLIFLC-MPLDLVRLW 103
Qy 100 HNYPLFGPCVCKTALFETVCFASILSVTVSVRYVAIVHPFRKLESTRRALRIL 159
Db 104 QYRPWNGDGLLCKLFQFVSECTATVLTITLVSRYFAICFPPLAKVVTGKRVKLVI 163
Qy 160 SLVMSFSVVFSLPNTSIHGKIFQHPNGSSVPGSATCTVTK-----PMVYNLII 209
Db 164 LVIAVAFCSAGPIFLVGVGHE---NGTDPDINECRATEFAVRSGLLTVMVWV---- 215
Qy 210 QATSELYILPMTLISVLVYLMGLRLKRDSELEANKVAVNTHRPSRKSVTKMLFVLVLF 269
Db 216 ---SSVFFFLPVCLTVLYSLIGRLKLRRRGDAA--VGASLRDQNHKQTVKMLAVVVF 270
Qy 270 AICWTPHVDRLFFS-FVEEWTESIAAVFNLIHVSVGVFFVYLSAVNPILNLLSRFRA 328
Db 271 ILCLMPFHVGRYLFKSFEPGSLQIAQISQYCNLVSEVFLYLSAAINPILYNIMSKRYV 330
Qy 329 A 329
Db 331 A 331

RESULT 5
US-09-077-674-16
; Sequence 16, Application US/09077674
; Patent No. 6531314
; GENERAL INFORMATION:
; APPLICANT: Arena, Joseph P.
; APPLICANT: Cully, Doris F.
; APPLICANT: Feighner, Scott D.
; APPLICANT: Howard, Andrew D.
; APPLICANT: Liberator, Paul A.
; APPLICANT: Schaeffer, James M.
; APPLICANT: Van Der Ploeg, Leonardus
; TITLE OF INVENTION: GROWTH HORMONE SECRETAGOGUE RECEPTOR FAMILY
; NUMBER OF SEQUENCES: 16
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Merck & Co., Inc.
; STREET: P.O. Box 2000, 126 E. Lincoln Ave.
; CITY: Rahway
; STATE: NJ
; COUNTRY: USA
; ZIP: 07065-0900
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS

; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/077,674
; FILING DATE: 3-JUN-1998
; CLASSIFICATION: 536
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Cocuzzo, Anna L.
; REGISTRATION NUMBER: 42,452
; REFERENCE/DOCKET NUMBER: 19589P
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 732-594-1273
; TELEFAX: 732-594-4720
; TELEX:
; INFORMATION FOR SEQ ID NO: 16:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 364 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-09-077-674-16

Query Match      22.4%; Score 465.5; DB 4; Length 364;
Best Local Similarity 34.6%; Pred. No. 8.7e-31;
Matches 104; Conservative 65; Mismatches 107; Indels 25; Gaps 6;

Qy 40 VSAVALIFLVGNLVCVIVRHOTLPTNYLFSLVASDLLVLLGMPLEIYEMW 99
Db 45 VTATCVALFVVGISGNLLTMLVSRFRELRTTNLYLSSMAFSDLLIFLC-MPLDLVRLW 103
Qy 100 HNYPLFGPCVCKTALFETVCFASILSVTVSVRYVAIVHPFRKLESTRRALRIL 159
Db 104 QYRPWNGDGLLCKLFQFVSECTATVLTITLVSRYFAICFPPLAKVVTGKRVKLVI 163
Qy 160 SLVMSFSVVFSLPNTSIHGKIFQHPNGSSVPGSATCTVTK-----PMVYNLII 209
Db 164 LVIAVAFCSAGPIFLVGVGHE---NGTDPDINECRATEFAVRSGLLTVMVWV---- 215
Qy 210 QATSELYILPMTLISVLVYLMGLRLKRDSELEANKVAVNTHRPSRKSVTKMLFVLVLF 269
Db 216 ---SSVFFFLPVCLTVLYSLIGRLKLRRRGDAA--VGASLRDQNHKQTVKMLAVVVF 270
Qy 270 AICWTPHVDRLFFS-FVEEWTESIAAVFNLIHVSVGVFFVYLSAVNPILNLLSRFRA 328
Db 271 ILCLMPFHVGRYLFKSFEPGSLQIAQISQYCNLVSEVFLYLSAAINPILYNIMSKRYV 330
Qy 329 A 329
Db 331 A 331

RESULT 6
US-09-077-675A-3
; Sequence 3, Application US/09077675A
; Patent No. 6242199
; GENERAL INFORMATION:
; APPLICANT: Pai, Lee-Yuh
; APPLICANT: Feighner, Scott C.
; APPLICANT: Howard, Andrew D.
; APPLICANT: Pong, Sheng-Shung
; APPLICANT: Van Der Ploeg, Leonardus H.T.
; TITLE OF INVENTION: RECEPTOR ASSAY
; NUMBER OF SEQUENCES: 16
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Merck & Co., Inc.
; STREET: P.O. Box 2000, 126 E. Lincoln Ave.
; CITY: Rahway
; STATE: NJ
; COUNTRY: USA
; ZIP: 07065-0900
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Query Match      22.3%; Score 463.5; DB 3; Length 361;
Best Local Similarity 34.9%; Pred. No. 1.3e-30;
Matches 106; Conservative 66; Mismatches 107; Indels 25; Gaps 7;

QY      40  VSVAYALIFVLVGVGNLLVCWVIVRHOTLKTPTNNYLFSLAVSDLLVLLGLCMPLIYEMW 99
      | : : : : : | | | | : : : : | | : | | | | : | | | | : : |
Db      41  VTATCVALFVVGAGNLLTMVVSFRRELKTTNLYLSSMAFSOLLIFLC-MPLDULRWLW 99
      | : : : : : | | | | : : : : | | : | | | | : | | | | : : |

QY      100 HNYPEFLGPGVGCYFKTALFTVCFASILSVTTVSVERIVAIVHPFRAKLESTRRRRLRIL 159
      | : : : : : | | | | : : : : | | : | | | | : | | | | : : |
Db      100 QYRPWNFGDLLKLFQVSESYATVLTITALSVERYFAICFLPRAKVVVTKGRVKLVI 159
      | : : : : : | | | | : : : : | | : | | | | : | | | | : : |

QY      160 SLVWSRVSVESLNTSHGKFKQHFPPNGSVSPGSATC-----TVTKPMVYNNLII 209
      | : : : : : | | | | : : : : | | : | | | | : | | | | : : |
Db      160 FVIMAVAFCSAGPIFVLVGVHEH---NGTDPMDTNECRPTFEAVRSGLLTVMVWV----- 211
      | : : : : : | | | | : : : : | | : | | | | : | | | | : : |

QY      210 QATSFIFYILPMTLISLYVLLMGLRLKRDESLKANKVAVNIHRPSKSVTKMLFVLVLVF 269
      | : : : : : | | | | : : : : | | : | | | | : | | | | : : |
Db      212 ---SSIFFFLPVCLTVLYSLIGKLRWRRGDA-VVGASLRDQNHKQTVKMLAVVYFAP 267
      | : : : : : | | | | : : : : | | : | | | | : | | | | : : |

QY      270 AICWTFPHVDRLFFS-FVEEWTSLSAAVFNLIHVVGSVFFYLSAVNPIIYNLSRRFR- 327
      | : : : : : | | | | : : : : | | : | | | | : | | | | : : |
Db      268 ILCWLPFHVGRVLFYSKSFEPGSLIEAIGISQVCNLVSPFLVFLSAAINPIILYNIMSKKYRV 327
      | : : : : : | | | | : : : : | | : | | | | : | | | | : : |

QY      328 AAFR 331
      | | |
Db      328 AVFR 331
      | | |

RESULT 9
US-09-077-674-8
; Sequence 8, Application US/09077674
; Patent No. 6531314
; GENERAL INFORMATION:

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Query Match	22.3%	Score	463.5	DB 4	Length	361	
Best Local Similarity	34.9%	Pred. No.	1.3e-30				
Matches	106	Conservative	66	Mismatches	107	Gaps	7

  

Qy	40	VSVAYALIFLVGVGNLLVCMVIVRHQTLPNTNYLFLSAVSDLLVLLGMPLEIYEMW	99
Db	41	VTATCVALEFVVGAGNLLTMLVWSRFRELRTTNLYLSSMAFSDLLIFLC-MPLDULRLW	99
Qy	100	HNYPFLFGPVCYFKTALFETVCFASILSVTVTSVERYVAIVHPFRAKLESTRRLRLIL	159
Db	100	QYRPWFNGDLLKCLFQPVSESCYATVLTITALSVERYFAICPPLRAKVYVTKGRVKLVI	159
Qy	160	SLVWSPVSWFLPNTSTHGKIQHPFNGSSVPGSNTC-----TVTKPMWVYMLII	209
Db	160	FVIMAVAFCSAGPIFVLVGVHEH---NGTOPMDTNECRPTPEFVRSGLLTVMWV-----	211
Qy	210	QATSFELPYILPMTLISVLYLMGLRLKRDESLEANKVAVNIHRPSRKSVPKMLFVLVLVF	269
Db	212	---SSIFFFLPVCLTVLYLSLRGKLWRRRRGDA-VVGASLRQNIHKQTVKMLAVVVFAP	267
Qy	270	AICWTPHVDRLFFS-FVEEWTESLAAVFNLLHVSGVFYFLLSAVNPIIYNLLSRFR-	327
Db	268	ILCWLPHVGRYLFKSFEPGSLIEIAQISQVCNLSVPFLVLSAAINPILYNIMSKKYRV	327
Qy	328	AAFR	331
Db	328	AVFR	331

RESULT 9  
US-09-077-674-8  
; Sequence 8, Application US/09077674  
; Patent No. 6531314  
; GENERAL INFORMATION:



Db 217 ---SSIFFFLPVCLTVLYSLIGRKLWRRRGDA-VVGASLRDQNHKQTVKMLAVVVVAF 272  
Qy 270 AICWTPHVDRLFFS-FVEEWTESLAAVFNLIHVVGFFVYLSAVNPPIYNLISRRFR- 327  
Db 273 ILCLPFPVHGRLYLFKSFEPGSLIAQISQYCNLVSVFLYLSAAINPILYNIMSKYRV 332  
Qy 328 AAFR 331  
Db 333 AVFR 336

RESULT 12

US-09-170-496D-88  
; Sequence 88, Application US/09170496D  
; Patent No. 6555339  
; GENERAL INFORMATION:  
; APPLICANT: Behan, Dominic P.  
; APPLICANT: Chalmers, Derek T.  
; APPLICANT: Liaw, Chen W.  
; TITLE OF INVENTION: No. 6555339-Endogenous, Constitutively Activated Human G Protein-  
; FILE REFERENCE: AREN-0040  
; CURRENT APPLICATION NUMBER: US/09/170.496D  
; CURRENT FILING DATE: 1998-10-13  
; NUMBER OF SEQ ID NOS: 294  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 88  
; LENGTH: 366  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-170-496D-88

Query Match 22.3%; Score 463.5; DB 4; Length 366;  
Best Local Similarity 34.9%; Pred. No. 1.3e-30;  
Matches 106; Conservative 66; Mismatches 107; Indels 25; Gaps 7;  
Qy 40 VSVAYALIFLVGMNLLVCMVIVRHQTLKPTNYLYFLSVAVSDLLVLLGMPLEIYEMW 99  
Db 46 VTATCVALFVVGVIAGNLLTMLVSVRFELRTTNLYLSSMAFSDLLIFLC-MPLDLVRLW 104  
Qy 100 HNYPFLEPGVGCYKFTALFETVCFASILSVTVSVRYVAIVHPFRKLESTRRALRIL 159  
Db 105 QYRPWNEGDLCKLFQVSECTVATLTITALSVERYFAICFPLRAKVVVTKGRVKLVI 164  
Qy 160 SLVMSFVSFLPNTSIHGKFKFQHPNGSSVPGSATC-----TVTKPMVYNLI 209  
Db 165 FVIWAVAFCSAGPIFVLGVGEHE---NGTDPWDTNECRPTEFAVRSGLLTVVWV 216  
Qy 210 QATSFLEYILPMTLISVLYLMGLRKRDESLKANKVAVNIHRPSRKSVTKMLFVLVLF 269  
Db 217 ---SSIFFFLPVCLTVLYSLIGRKLWRRRGDA-VVGASLRDQNHKQTVKMLAVVVVAF 272  
Qy 270 AICWTPHVDRLFFS-FVEEWTESLAAVFNLIHVVGFFVYLSAVNPPIYNLISRRFR- 327  
Db 273 ILCLPFPVHGRLYLFKSFEPGSLIAQISQYCNLVSVFLYLSAAINPILYNIMSKYRV 332  
Qy 328 AAFR 331  
Db 333 AVFR 336

RESULT 13

US-09-170-496D-210  
; Sequence 210, Application US/09170496D  
; Patent No. 6555339  
; GENERAL INFORMATION:  
; APPLICANT: Behan, Dominic P.  
; APPLICANT: Chalmers, Derek T.  
; APPLICANT: Liaw, Chen W.  
; TITLE OF INVENTION: No. 6555339-Endogenous, Constitutively Activated Human G Protein-  
; FILE REFERENCE: AREN-0040  
; CURRENT APPLICATION NUMBER: US/09/170.496D

; CURRENT FILING DATE: 1998-10-13  
; NUMBER OF SEQ ID NOS: 294  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 210  
; LENGTH: 366  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-170-496D-210

Query Match 22.3%; Score 462.5; DB 4; Length 366;  
Best Local Similarity 34.9%; Pred. No. 1.5e-30;  
Matches 106; Conservative 66; Mismatches 107; Indels 25; Gaps 7;

Qy 40 VSVAYALIFLVGMNLLVCMVIVRHQTLKPTNYLYFLSVAVSDLLVLLGMPLEIYEMW 99  
Db 46 VTATCVALFVVGVIAGNLLTMLVSVRFELRTTNLYLSSMAFSDLLIFLC-MPLDLVRLW 104  
Qy 100 HNYPFLEPGVGCYKFTALFETVCFASILSVTVSVRYVAIVHPFRKLESTRRALRIL 159  
Db 105 QYRPWNEGDLCKLFQVSECTVATLTITALSVERYFAICFPLRAKVVVTKGRVKLVI 164  
Qy 160 SLVMSFVSFLPNTSIHGKFKFQHPNGSSVPGSATC-----TVTKPMVYNLI 209  
Db 165 FVIWAVAFCSAGPIFVLGVGEHE---NGTDPWDTNECRPTEFAVRSGLLTVVWV 216  
Qy 210 QATSFLEYILPMTLISVLYLMGLRKRDESLKANKVAVNIHRPSRKSVTKMLFVLVLF 269  
Db 217 ---SSIFFFLPVCLTVLYSLIGRKLWRRRGDA-VVGASLRDQNHKQTVKMLAVVVVAF 272  
Qy 270 AICWTPHVDRLFFS-FVEEWTESLAAVFNLIHVVGFFVYLSAVNPPIYNLISRRFR- 327  
Db 273 ILCLPFPVHGRLYLFKSFEPGSLIAQISQYCNLVSVFLYLSAAINPILYNIMSKYRV 332  
Qy 328 AAFR 331  
Db 333 AVFR 336

RESULT 14

US-08-858-876A-2  
; Sequence 2, Application US/08858876A  
; Patent No. 6022856  
; GENERAL INFORMATION:  
; APPLICANT: Daniel CAPUT  
; APPLICANT: Pascale CHALON  
; APPLICANT: Pascual FERRARA  
; APPLICANT: Vita NATALIO  
; TITLE OF INVENTION: Type 2 Neurotensin Receptor  
; TITLE OF INVENTION: (HNT-R2)  
; NUMBER OF SEQUENCES: 12  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Jacobson, Price, Holman & Stern, PLLC  
; STREET: 400 Seventh Street  
; CITY: Washington  
; STATE: D.C.  
; COUNTRY: USA  
; ZIP: 20004  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)  
; CURRENT APPLICATION DATA: US/08/858.876A  
; APPLICATION NUMBER: US/08/858.876A  
; FILING DATE: 19-SEP-1997  
; CLASSIFICATION: 536  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: PCT/FR 9723204  
; FILING DATE: 17-MAR-1997  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Player, William E.  
; REGISTRATION NUMBER: 31,049  
; INFORMATION FOR SEQ ID NO: 2:

SEQUENCE CHARACTERISTICS:  
LENGTH: 410 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-858-876A-2

Query Match 21.1%; Score 437; DB 3; Length 410;  
Best Local Similarity 30.2%; Pred. No. 2.2e-28;  
Matches 108; Conservative 73; Mismatches 123; Indels 54; Gaps 11;  
QY 44 YALIFLVGMNLLVCMVIVRHQT-LKT-PTNYLFSLAUSDLLVLLGMPLEIYE-MWHN 101  
DB 39 YALIWALGAAGNALSVHVVKARAGRRLRHVLSLALAGLLLVGVPVELYSFVWFH 98  
QY 102 YPFLGPGVC---YFKTALFETVCFASILSVTTVSVERVVAIVHPFRKLESTRRLRI 158  
DB 99 YPWVFGDLGCRGYF---VHELCAVATVLSVAGLSAERCCLAVCQPLRARSLLTPRTRWL 155  
QY 159 LSLVMSFSVVSFLPNTSIHGKIFQ-HFNGSSVPGSATCTVTKPMVYNLIQATSFIFY 217  
DB 156 VALSNAASLGALPMAVINGOKHELETADGEPEPASRVCTVLSRTALQVFIQVNVLYSF 215  
QY 218 ILPMTLISVL-----YYLMG-----LRLKRDESL-----EA 243  
DB 216 VLPLALTAPLNGVTVSHLLALCSQVPSTPGSSTPSRLLELSEGLLSFIYMKKTFIQG 275  
QY 244 NKVAVNIHRPSRK-----SVTKMLFVLVLVFAICHTPPHVDRLFFSFV---EWTESLAAY 296  
DB 276 GOVSLVRHKDVRIRISLQSRVQLRAIVVMYVICWLPYHARMLMYCYVDDAWTDPLYNF 335  
QY 297 FNLIHVSGVFFYLSAVNPITYNLLSRFRFAAFRNVSPTCKWCHPRHR-----PQGP 350  
DB 336 YHVFYMTNTLFYVSSAVTPLLNAVSSFRKLFLEAVSSLCGEHHPMKRLPPKQSP 393

RESULT 15  
US-09-472-880-2  
Sequence 2, Application US/09472880  
Patent No. 6274333

GENERAL INFORMATION:

APPLICANT: Daniel CAPUT  
Pascale CHALON  
Pascual FERRARA  
Vita NATALIO

TITLE OF INVENTION: Type 2 Neurotensin Receptor (hNT-R2)

NUMBER OF SEQUENCES: 12

CORRESPONDENCE ADDRESS:

ADDRESSEE: Jacobson, Price, Holman & Stern, PLLC  
STREET: 400 Seventh Street  
CITY: Washington  
STATE: D.C.  
COUNTRY: USA  
ZIP: 20004

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.25 (EPO)

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/472,880  
FILING DATE: 28-Dec-1999  
CLASSIFICATION: <Unknown>

PRIOR APPLICATION DATA:

APPLICATION NUMBER: PCT/FR 9723204  
FILING DATE: 17-MAR-1997

ATTORNEY/AGENT INFORMATION:

NAME: Player, William E.  
REGISTRATION NUMBER: 31,049

INFORMATION FOR SEQ ID NO: 2:

SEQUENCE CHARACTERISTICS:  
LENGTH: 410 amino acids

TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
SEQUENCE DESCRIPTION: SEQ ID NO: 2:  
US-09-472-880-2

Query Match 21.1%; Score 437; DB 3; Length 410;  
Best Local Similarity 30.2%; Pred. No. 2.2e-28;  
Matches 108; Conservative 73; Mismatches 123; Indels 54; Gaps 11;  
QY 44 YALIFLVGMNLLVCMVIVRHQT-LKT-PTNYLFSLAUSDLLVLLGMPLEIYE-MWHN 101  
DB 39 YALIWALGAAGNALSVHVVKARAGRRLRHVLSLALAGLLLVGVPVELYSFVWFH 98  
QY 102 YPFLGPGVC---YFKTALFETVCFASILSVTTVSVERVVAIVHPFRKLESTRRLRI 158  
DB 99 YPWVFGDLGCRGYF---VHELCAVATVLSVAGLSAERCCLAVCQPLRARSLLTPRTRWL 155  
QY 159 LSLVMSFSVVSFLPNTSIHGKIFQ-HFNGSSVPGSATCTVTKPMVYNLIQATSFIFY 217  
DB 156 VALSNAASLGALPMAVINGOKHELETADGEPEPASRVCTVLSRTALQVFIQVNVLYSF 215  
QY 218 ILPMTLISVL-----YYLMG-----LRLKRDESL-----EA 243  
DB 216 VLPLALTAPLNGVTVSHLLALCSQVPSTPGSSTPSRLLELSEGLLSFIYMKKTFIQG 275  
QY 244 NKVAVNIHRPSRK-----SVTKMLFVLVLVFAICHTPPHVDRLFFSFV---EWTESLAAY 296  
DB 276 GOVSLVRHKDVRIRISLQSRVQLRAIVVMYVICWLPYHARMLMYCYVDDAWTDPLYNF 335  
QY 297 FNLIHVSGVFFYLSAVNPITYNLLSRFRFAAFRNVSPTCKWCHPRHR-----PQGP 350  
DB 336 YHVFYMTNTLFYVSSAVTPLLNAVSSFRKLFLEAVSSLCGEHHPMKRLPPKQSP 393

Search completed: August 22, 2003, 19:08:47  
Job time : 15.6296 secs